

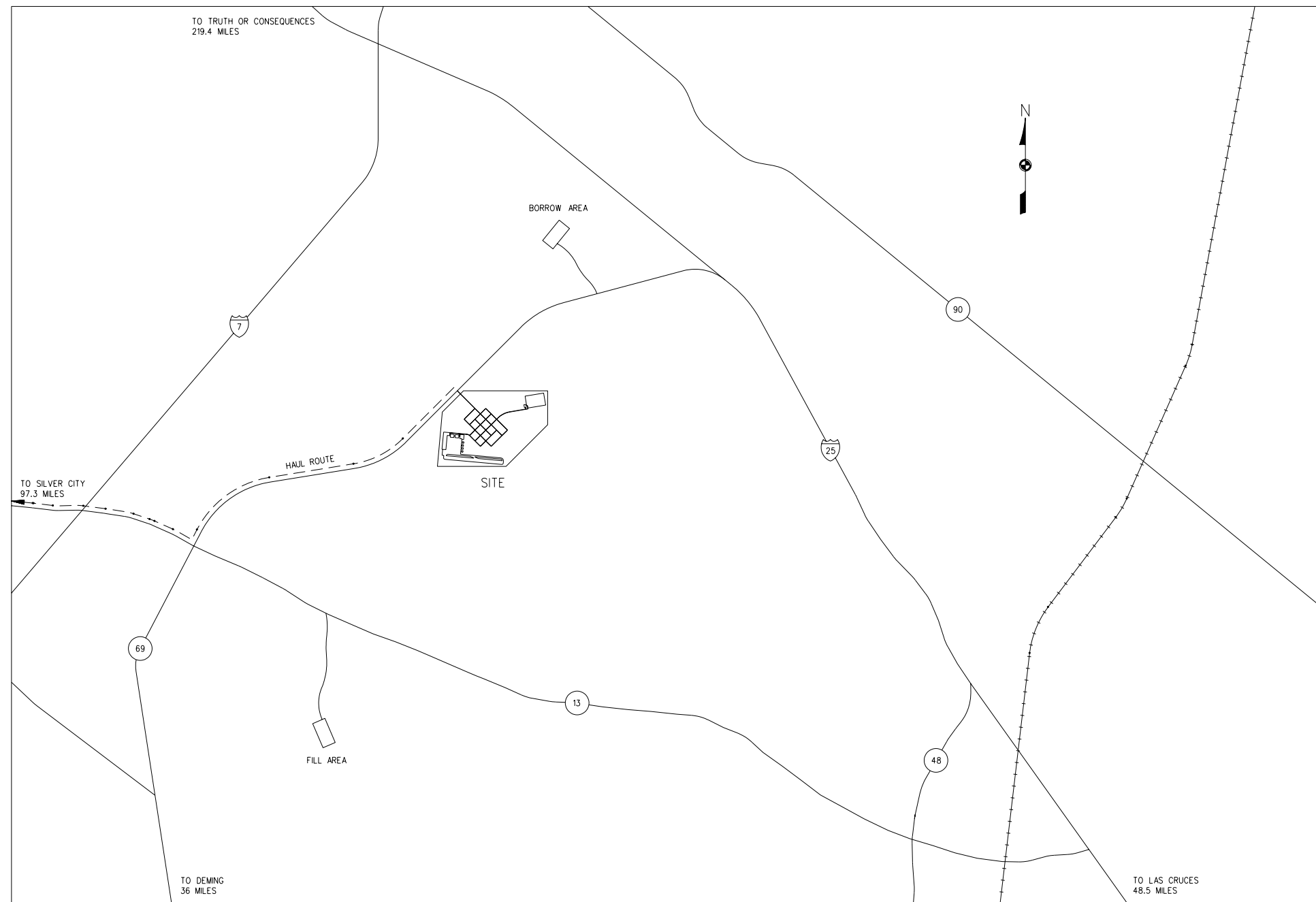


**US Army Corps
of Engineers ®**

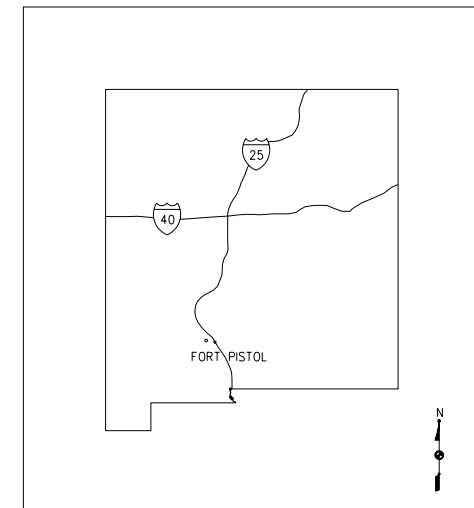
FT. PISTOL TYPICAL DESIGN DRAWINGS FOR ELECTRONIC SECURITY SYSTEM

Prepared by:
U.S. Army Corps of Engineers
IDS Mandatory Center of Expertise
Huntsville Division
Electronic Technology

NOTES:




SITE LOCATION MAP
NOT TO SCALE

[illegible]

Symbol	Description	Date	Approved
Revisions			

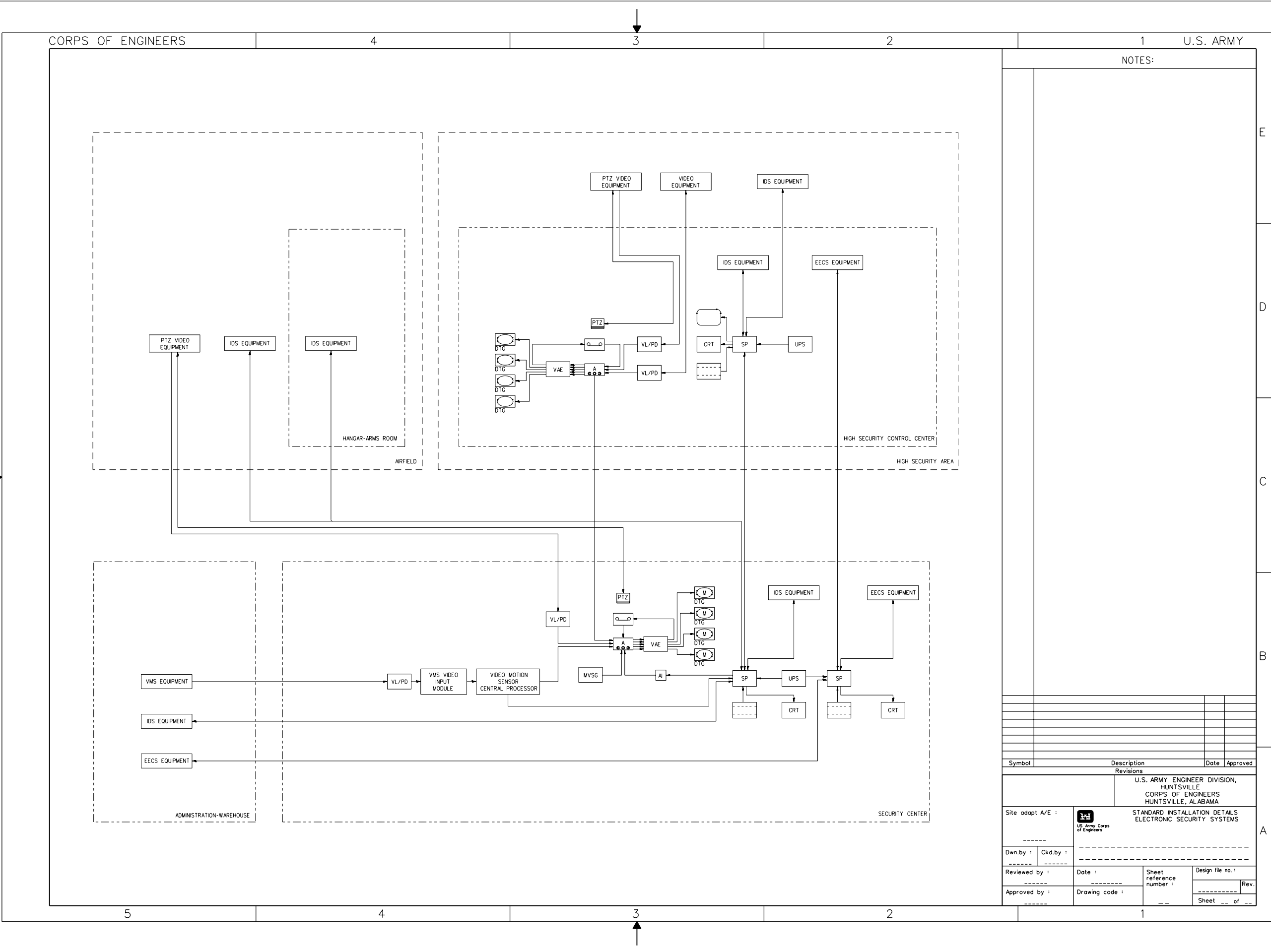
	U.S. ARMY ENGINEER DIVISION, HUNTSVILLE CORPS OF ENGINEERS HUNTSVILLE, ALABAMA
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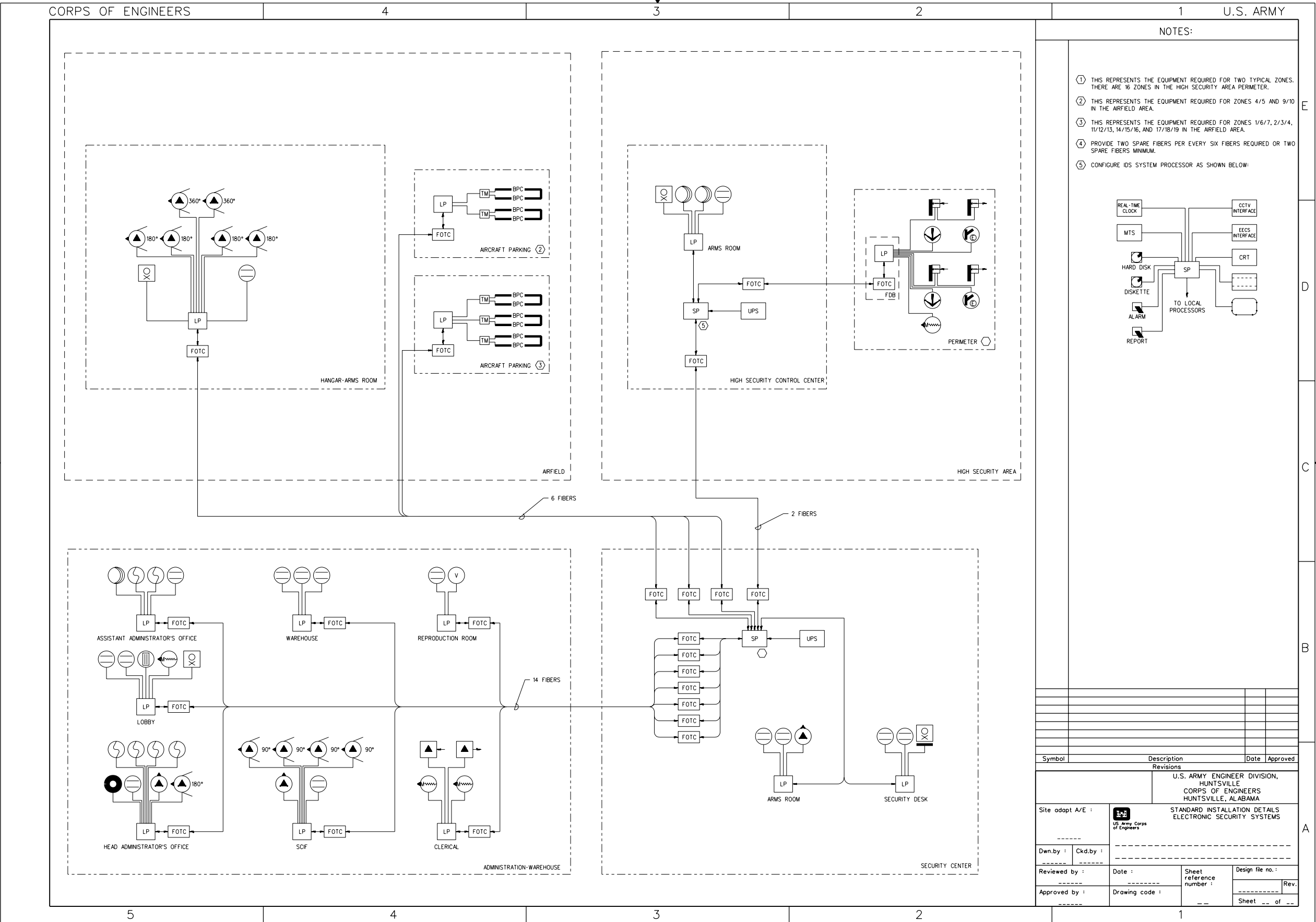
Site adapt A/E :	 US Army Corps of Engineers	STANDARD INSTALLATION DETAILS ELECTRONIC SECURITY SYSTEMS
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Dwn.by :	Ckd.by :	----- -----

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Reviewed by :	Date :	Sheet reference number :	Design file no. :
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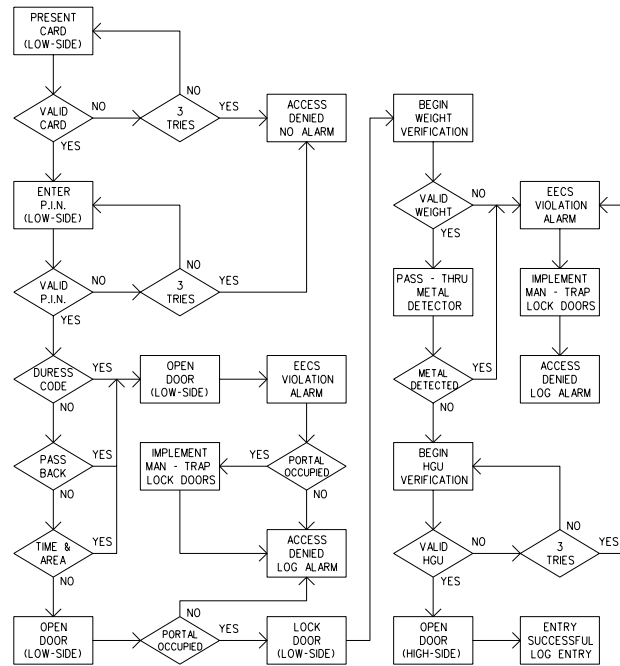
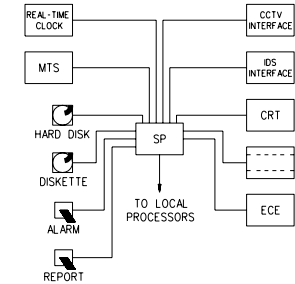
Approved by : _____	Drawing code : _____	Sheet ____ of ____
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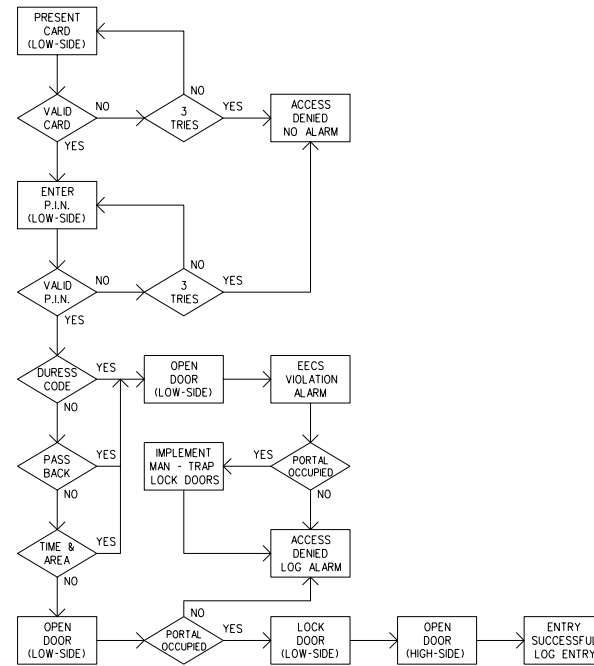


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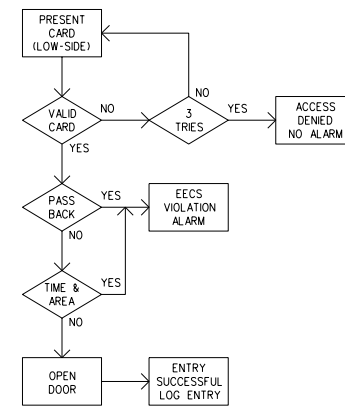
① CONFIGURE EECS SYSTEM PROCESSOR AS SHOWN BELOW:



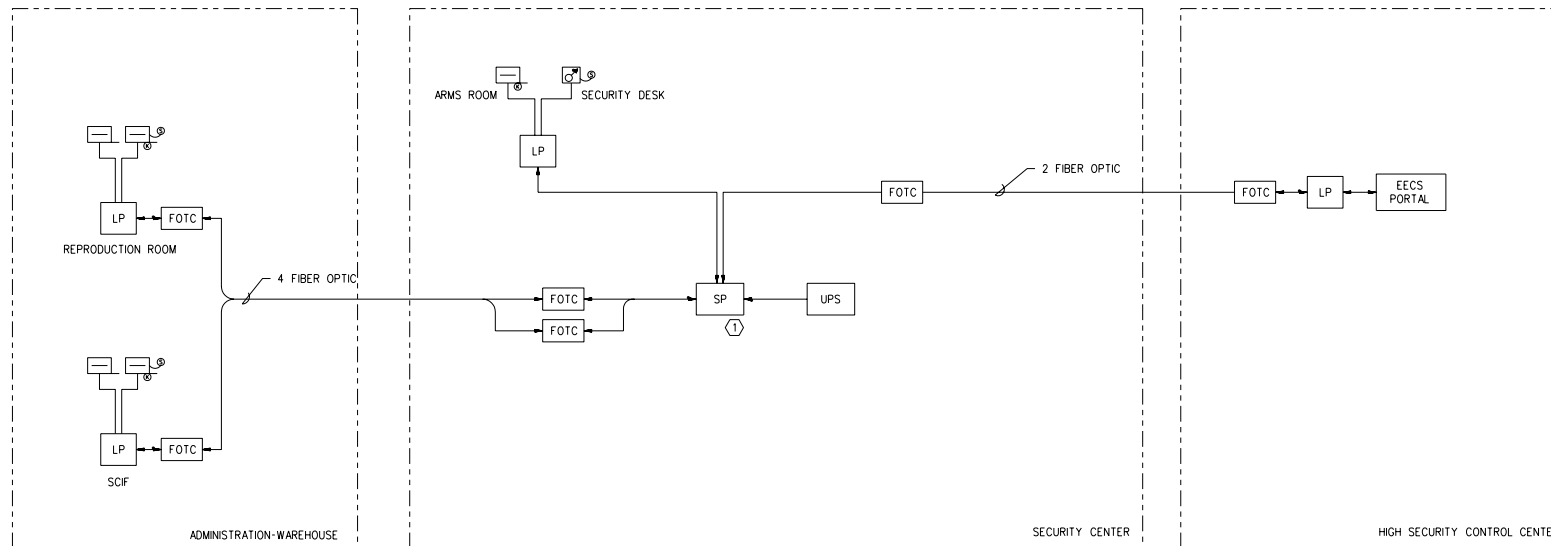
HIGH SECURITY EECS PORTAL FUNCTIONAL LOGIC




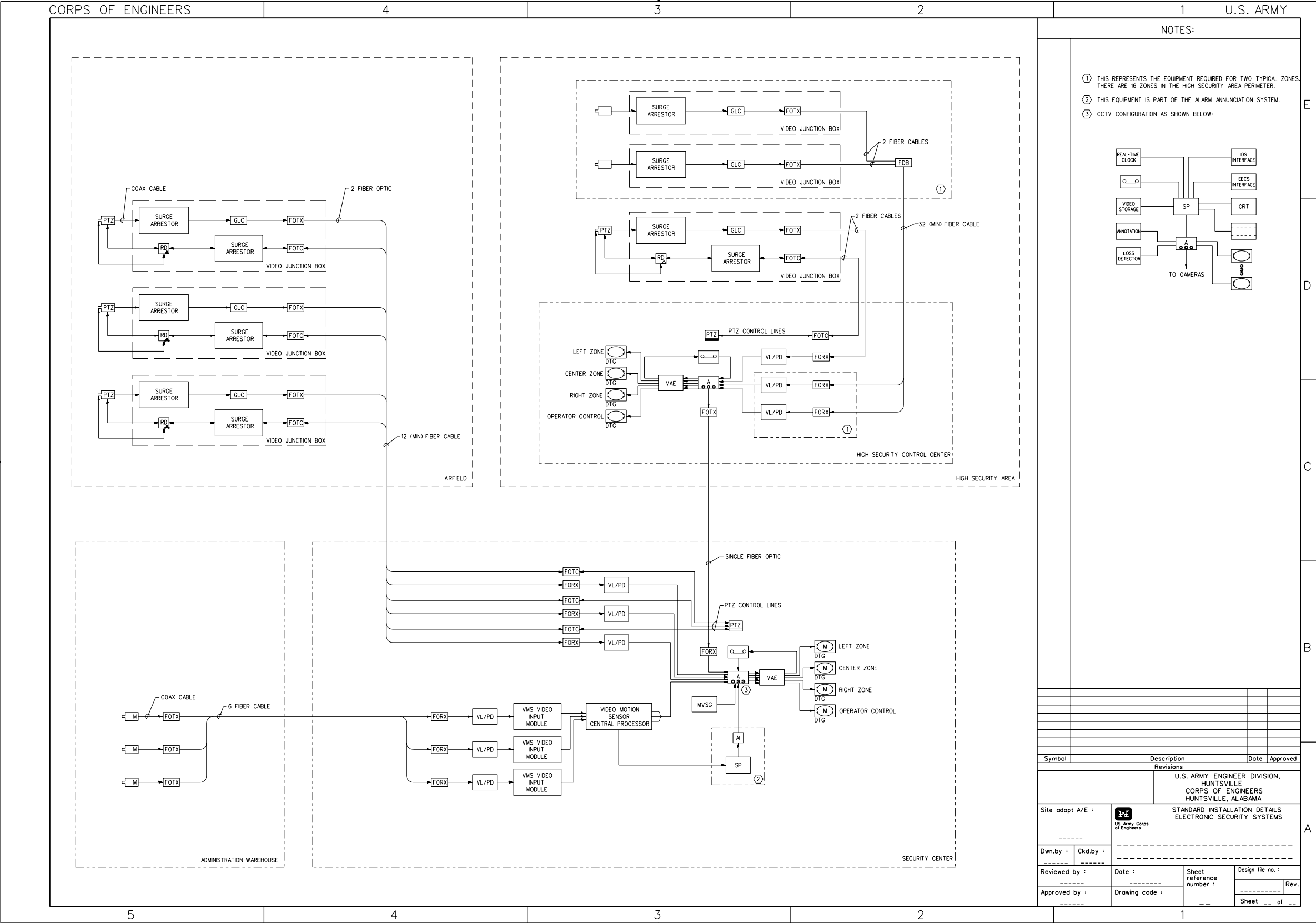
MEDIUM SECURITY EECS PORTAL FUNCTIONAL LOGIC



LOW SECURITY EECS PORTAL FUNCTIONAL LOGIC



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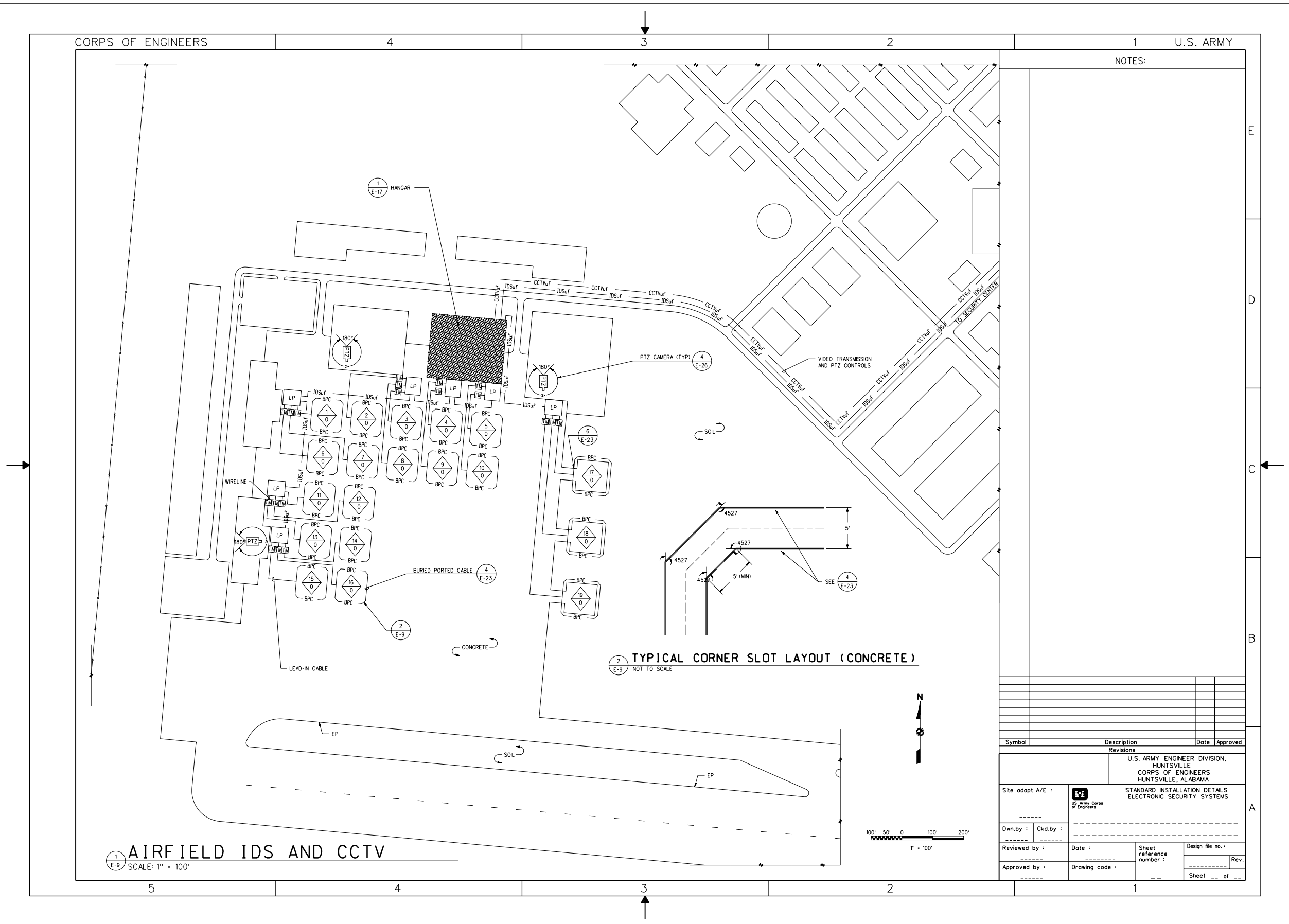
3

2

1

U.S. ARMY

NOTES:



1 AIRFIELD IDS AND CCTV
SCALE: 1" = 100'

2 TYPICAL CORNER SLOT LAYOUT (CONCRETE)
E-9 NOT TO SCALE

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Approved by :		Drawing code :	Design file no. : Rev.
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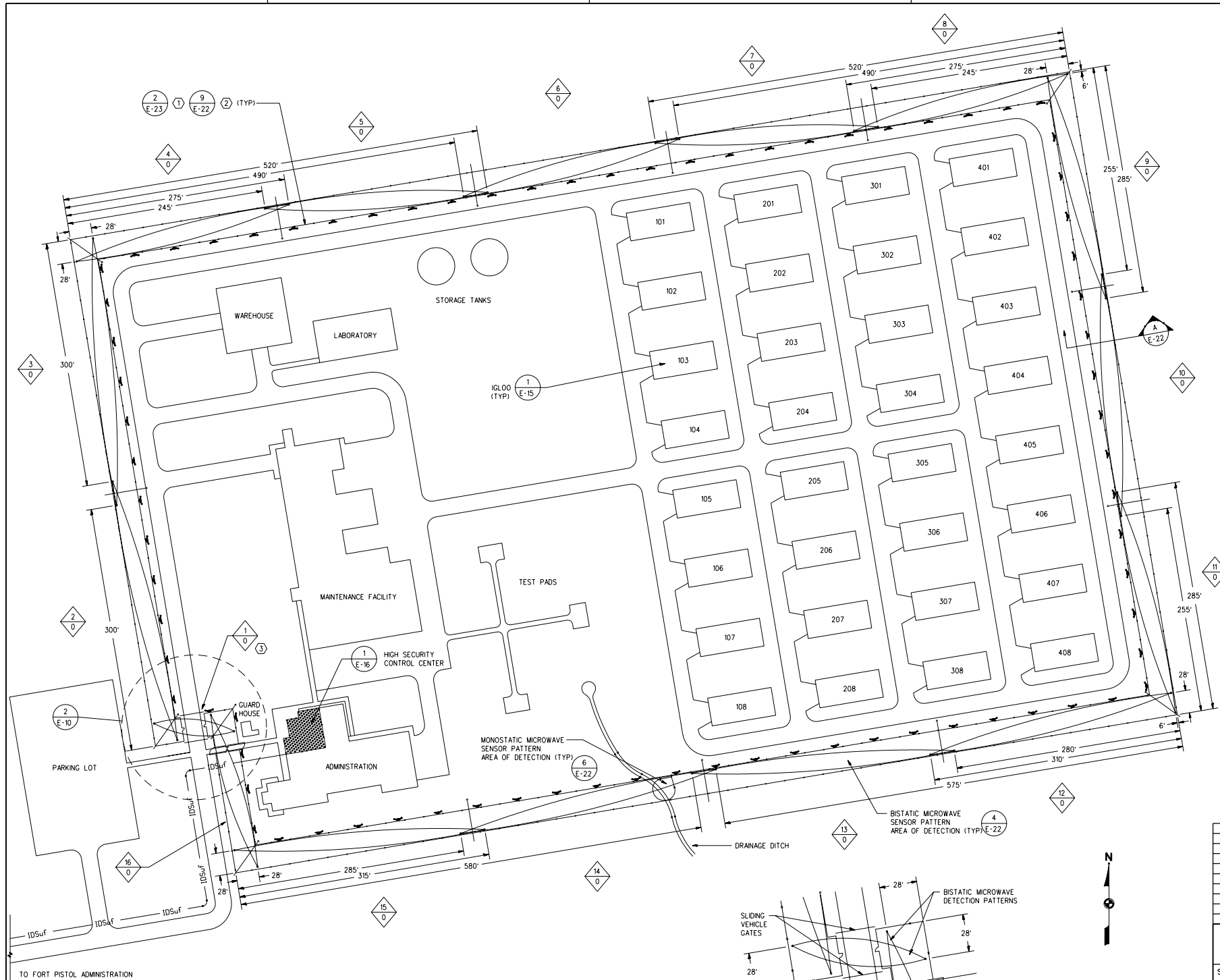
2

1

U.S. ARMY

NOTES:

- (1) CAPACITANCE FENCE SENSORS INSTALLED ON INNER FENCE OUT-RIGGER.
(2) STRAIN SENSITIVE CABLE SENSOR INSTALLED ON INNER FENCE FABRIC.
(3) STRAIN SENSITIVE CABLE SENSOR BYPASSED AT SLIDING GATE.



1 HIGH SECURITY PLANT PERIMETER IDS LAYOUT
E-10 SCALE: 1" = 50'

2 SALLY PORT
E-10 SCALE: 1" = 30'

50' 25' 0 50' 100'
1" = 50'

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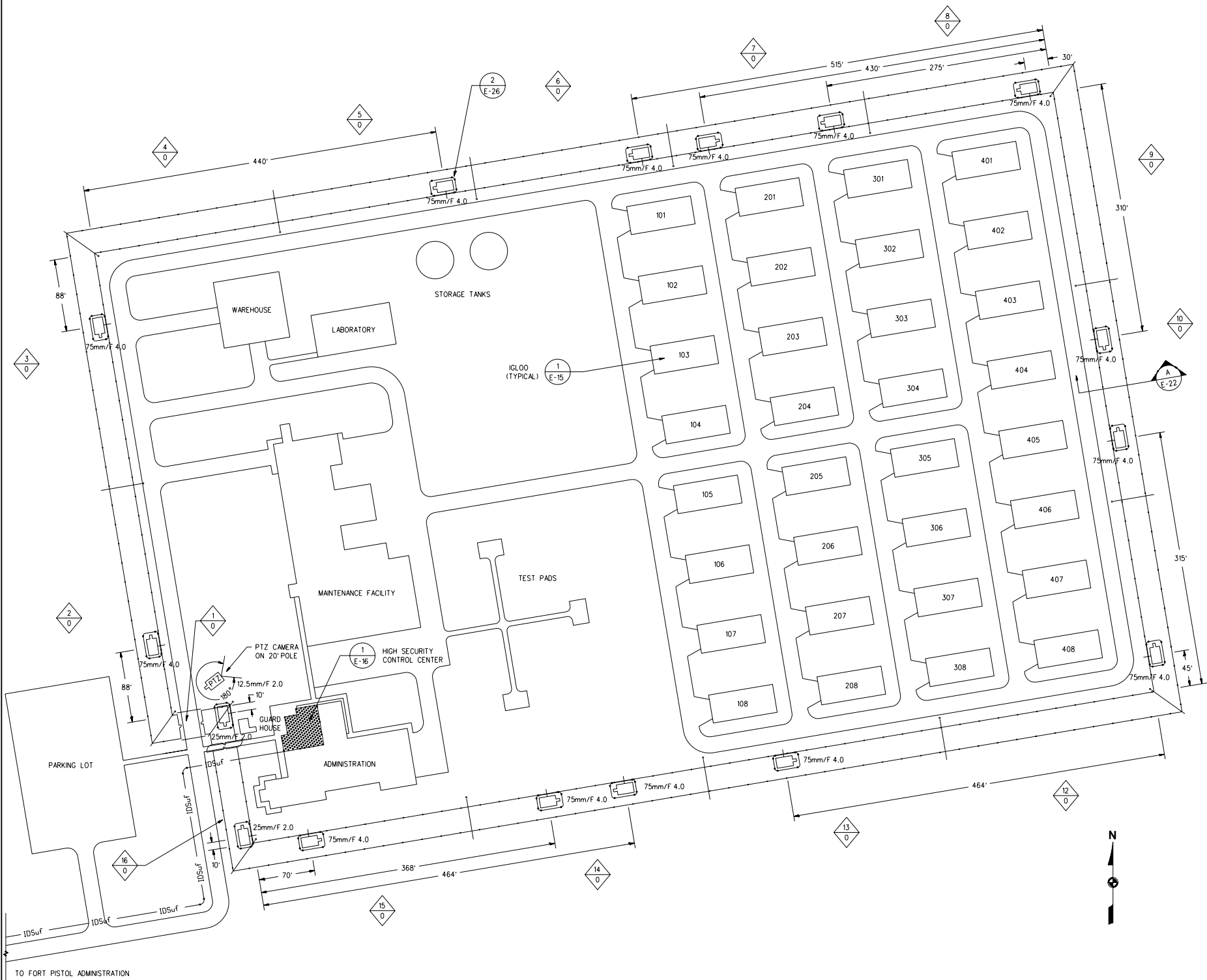
3

2

1

U.S. ARMY

NOTES:



CCTV LAYOUT
SCALE: 1" = 50'

50' 25' 0 50' 100'
1" = 50'

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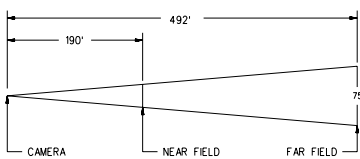
2

1

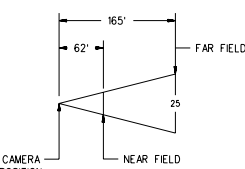
U.S. ARMY

NOTES:

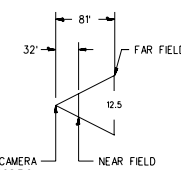
1 CCTV CAMERA FIELD-OF-VIEW CALCULATIONS ARE BASED UPON THE REQUIREMENTS SET FORTH IN SANDIA NATIONAL LABORATORIES INTRUSION DETECTION SYSTEMS HANDBOOK VOLUME II, SECTION 6.3, SAND 76-0554, OCT, 1977.



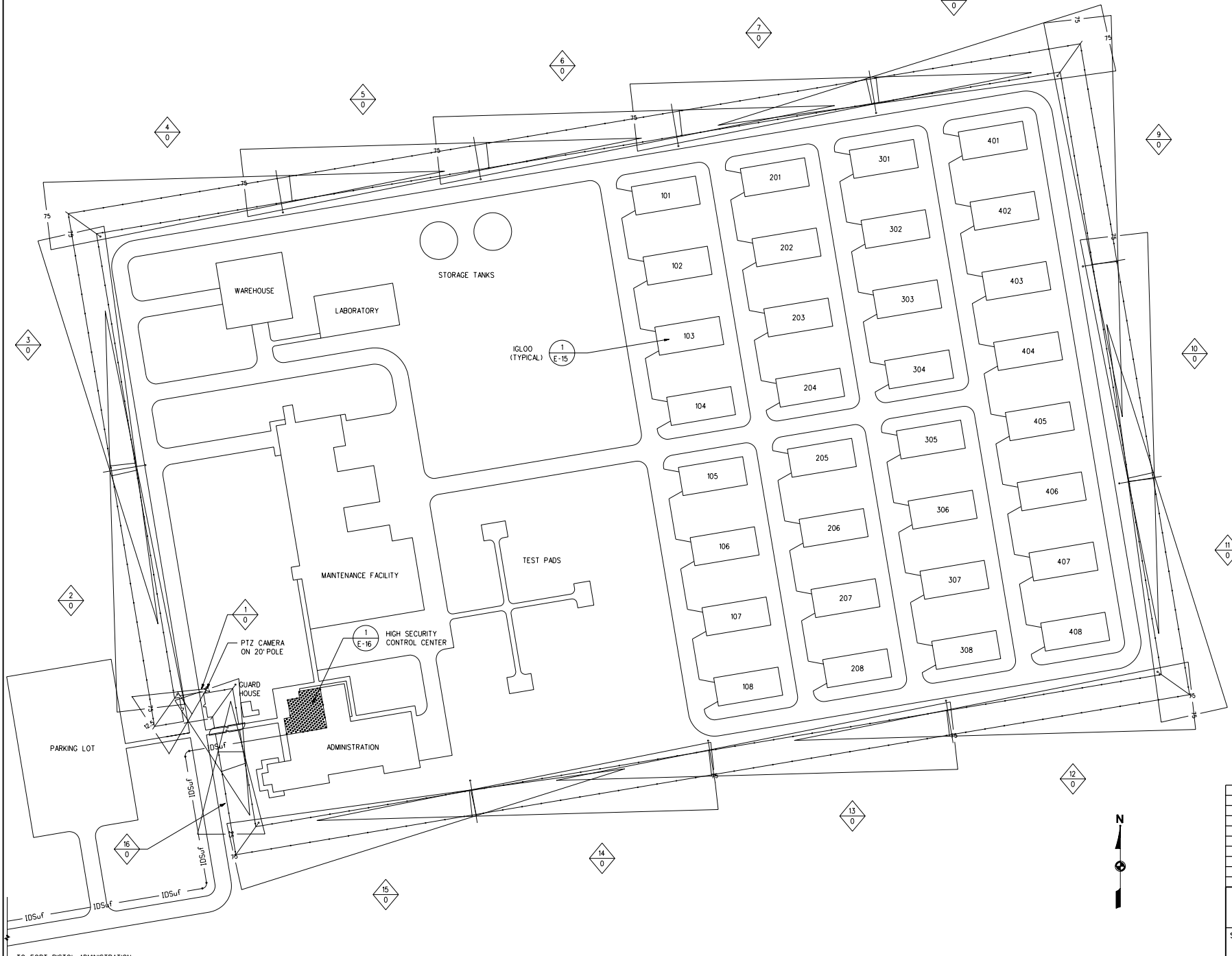
75mm



25mm

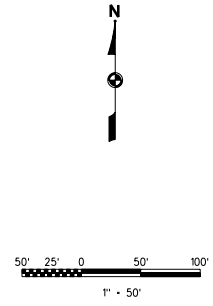


12.5mm



TO FORT PISTOL ADMINISTRATION

CCTV FIELD OF VIEW
SCALE: 1" = 50'



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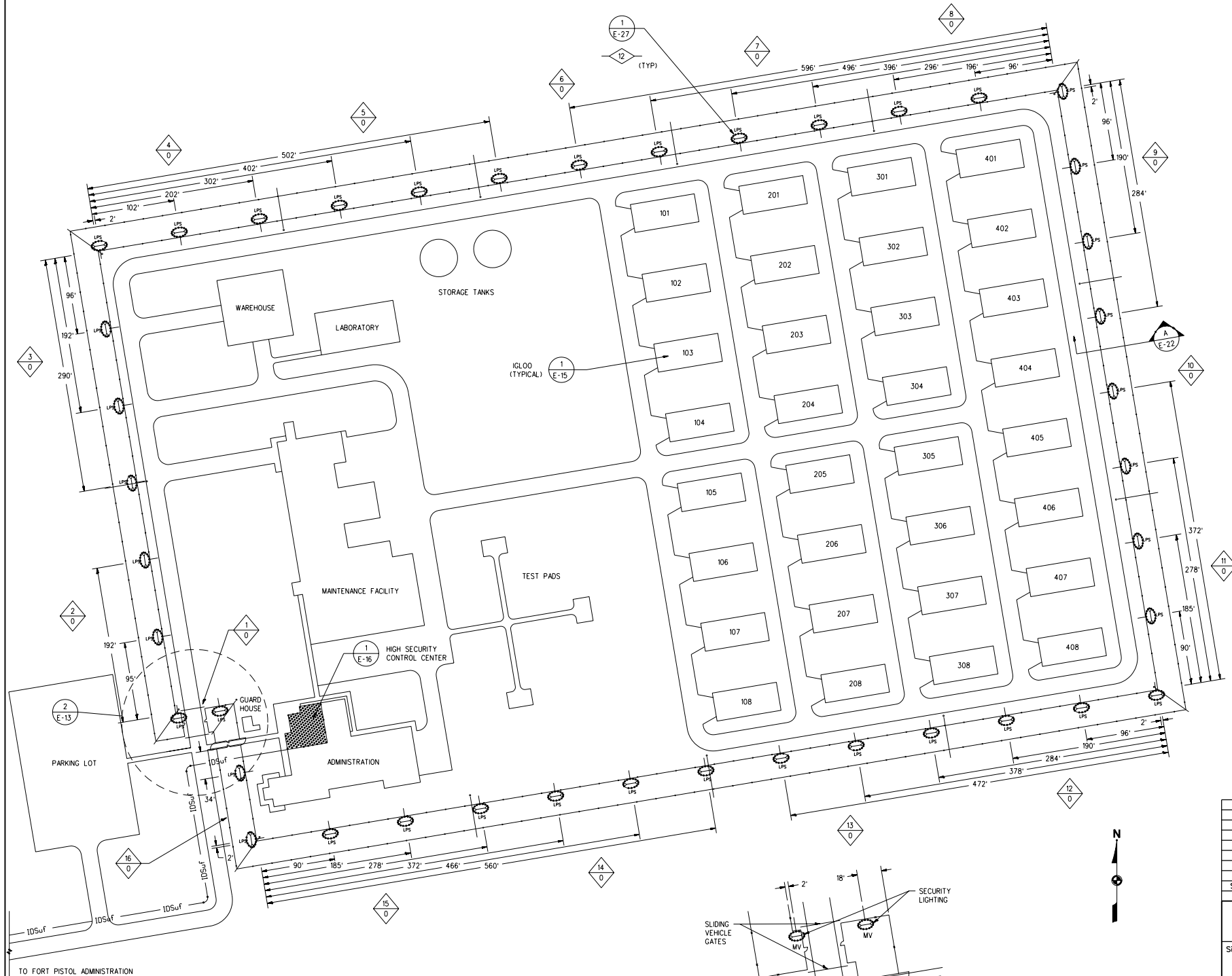
3

2

1

U.S. ARMY

NOTES:



1 PERIMETER LIGHTING LAYOUT
SCALE: 1" = 50'

2 SALLY PORT
SCALE: 1" = 30'

Symbol	Description	Date	Approved
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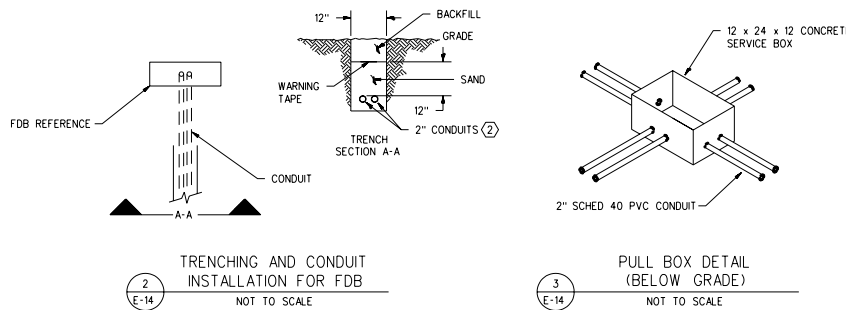
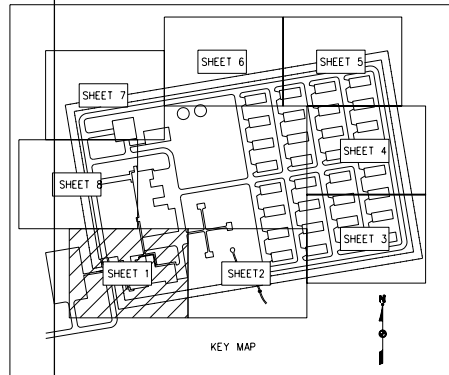
2

1

U.S. ARMY

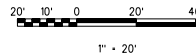
NOTES:

- (1) MAIN TRENCHING AND CONDUIT LAYOUT FOR PERIMETER IDS COMPONENTS. CENTER LINE OF MAIN TRENCH TO BE LOCATED 3' MINIMUM FROM THE INSIDE FENCE.
- (2) MAXIMUM BURIAL DEPTH FOR CONDUIT SHALL BE DEPENDENT UPON THE DEPTH OF THE FROST LINE. MINIMUM BURIAL DEPTH SHALL BE 30".



TRENCHING PLAN

SCALE: 1" = 20'



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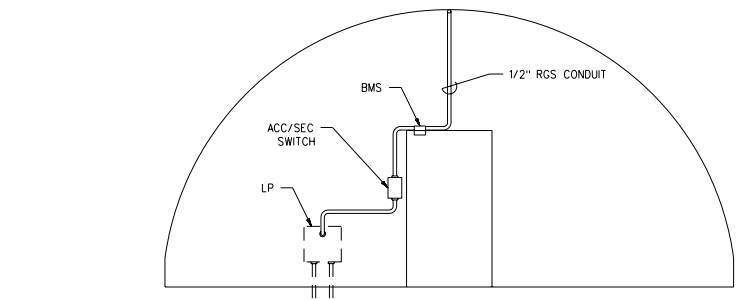
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U.S. ARMY

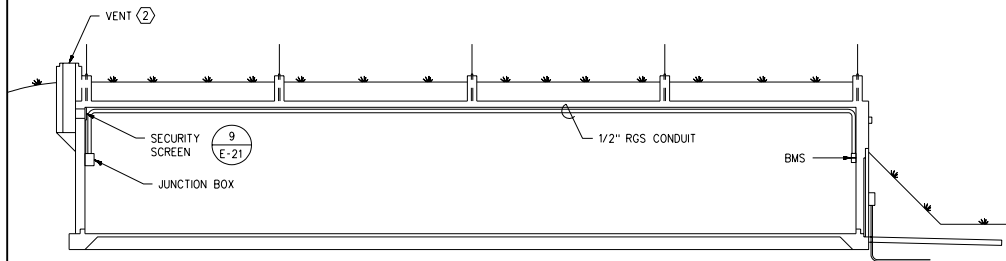
NOTES:

1 NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.

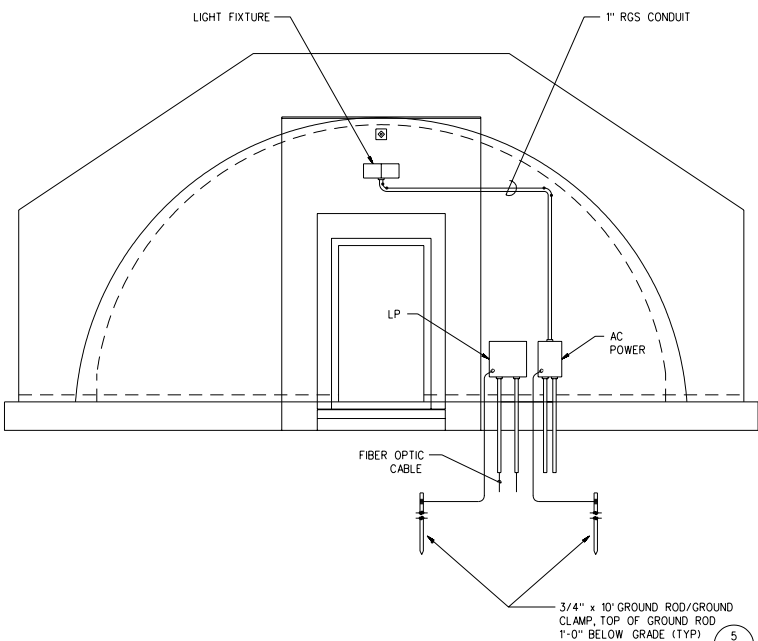
2 IF VENT OPENING IS GREATER THAN 96 SQUARE INCHES OR THE SMALLEST DIMENSION IS GREATER THAN 6 INCHES, A BARRIER OR IDS MUST BE PROVIDED.



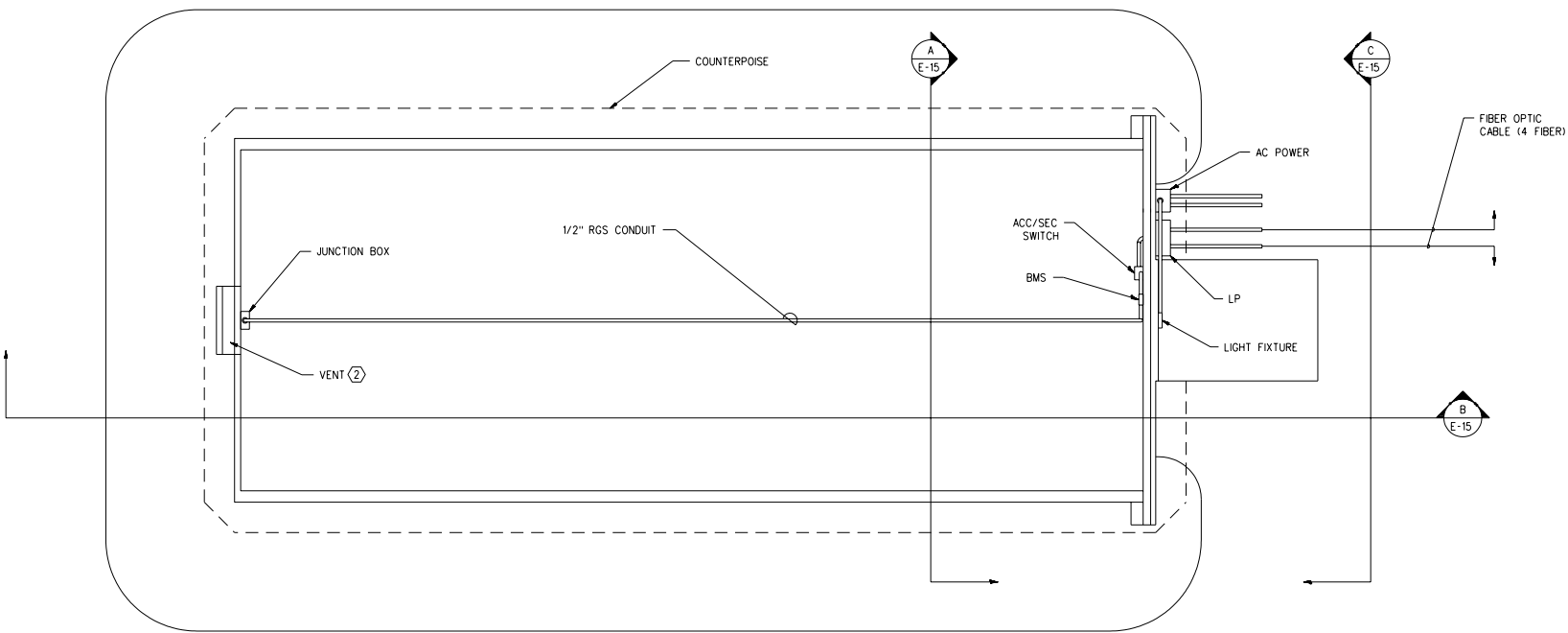
IGLOO INSIDE HEADWALL ELEVATION
A
E-15
NOT TO SCALE



IGLOO LONGTITUDINAL ELEVATION
B
E-15
NOT TO SCALE



IGLOO HEADWALL ELEVATION
C
E-15
NOT TO SCALE



IGLOO IDS PLAN
1
E-15
NOT TO SCALE

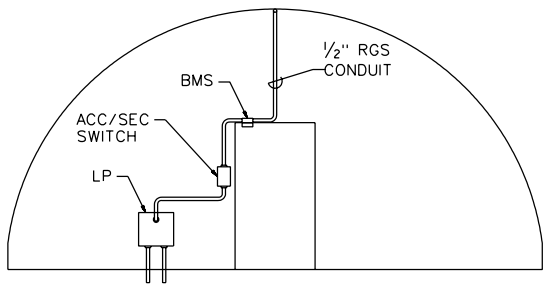
5

4

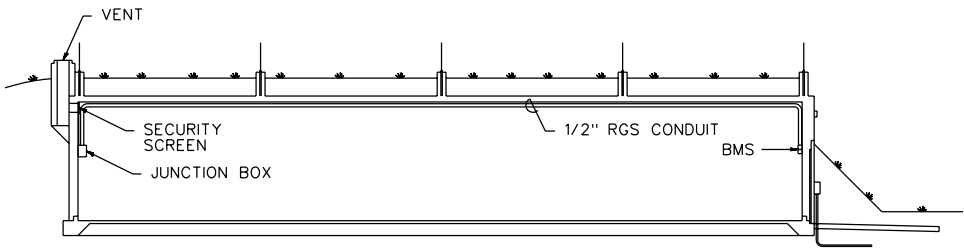
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2

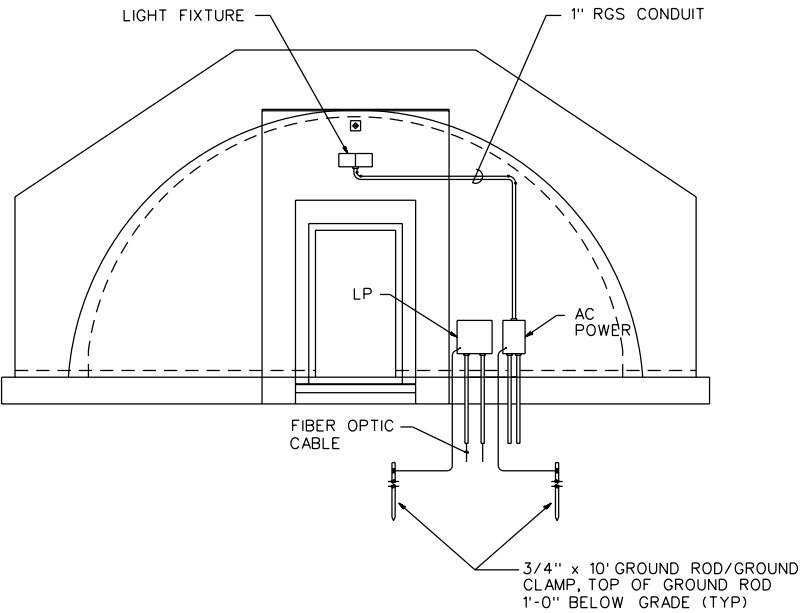
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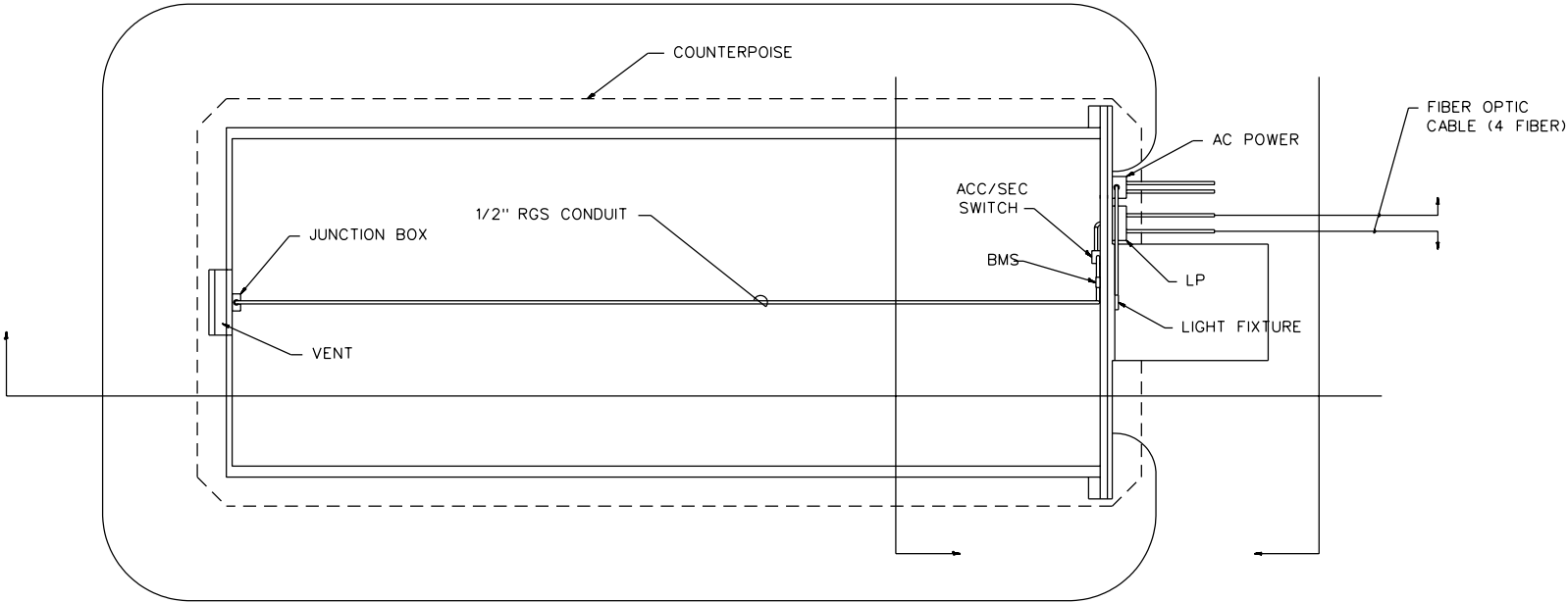
IGLOO INSIDE HEADWALL ELEVATION
NOT TO SCALE



IGLOO LONGTITUDINAL ELEVATION
NOT TO SCALE



IGLOO HEADWALL ELEVATION
NOT TO SCALE



IGLOO IDS PLAN
NOT TO SCALE

CORPS OF ENGINEERS

4

3

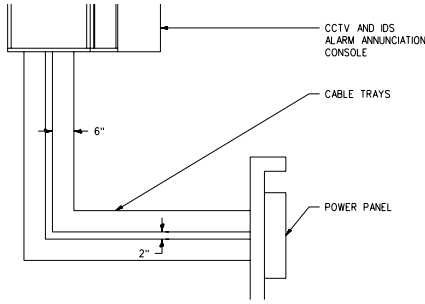
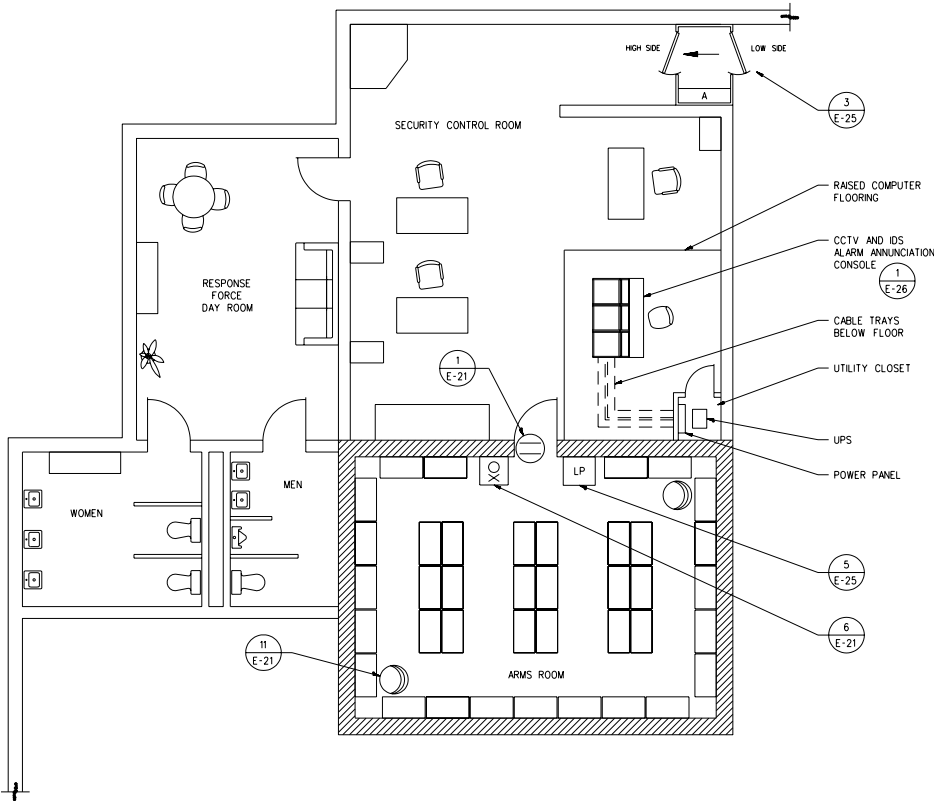
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1

U.S. ARMY

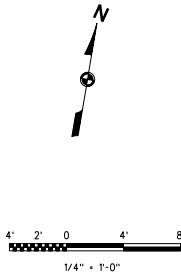
NOTES:

1 SENSOR LAYOUT SHOWN REPRESENTS ONE APPLICATION IN COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF AR 190-11 SECTION 3-6 g.



2 CABLE TRAYS DETAIL
E-16 NOT TO SCALE

1 HIGH SECURITY CONTROL CENTER IDS EQUIPMENT
E-16 SCALE: 1/4" = 1'-0"



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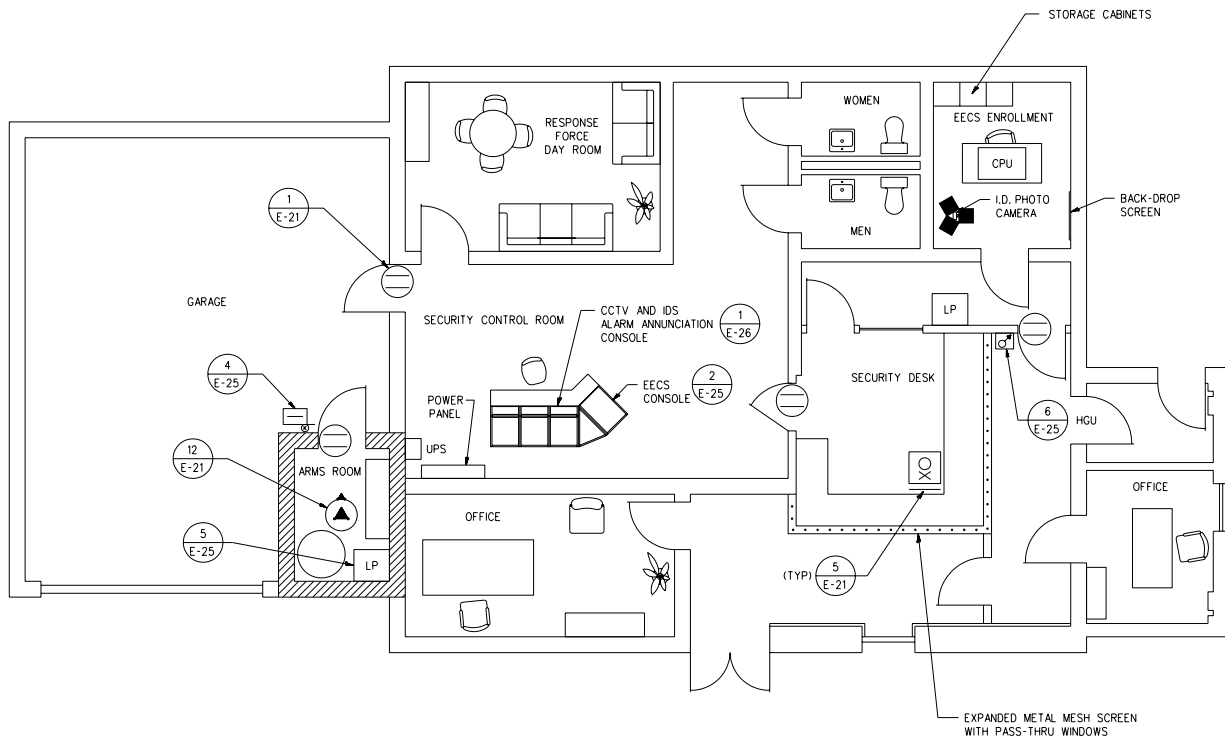
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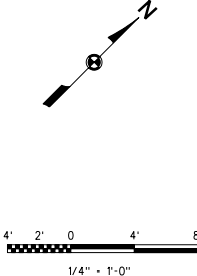
U.S. ARMY

NOTES:

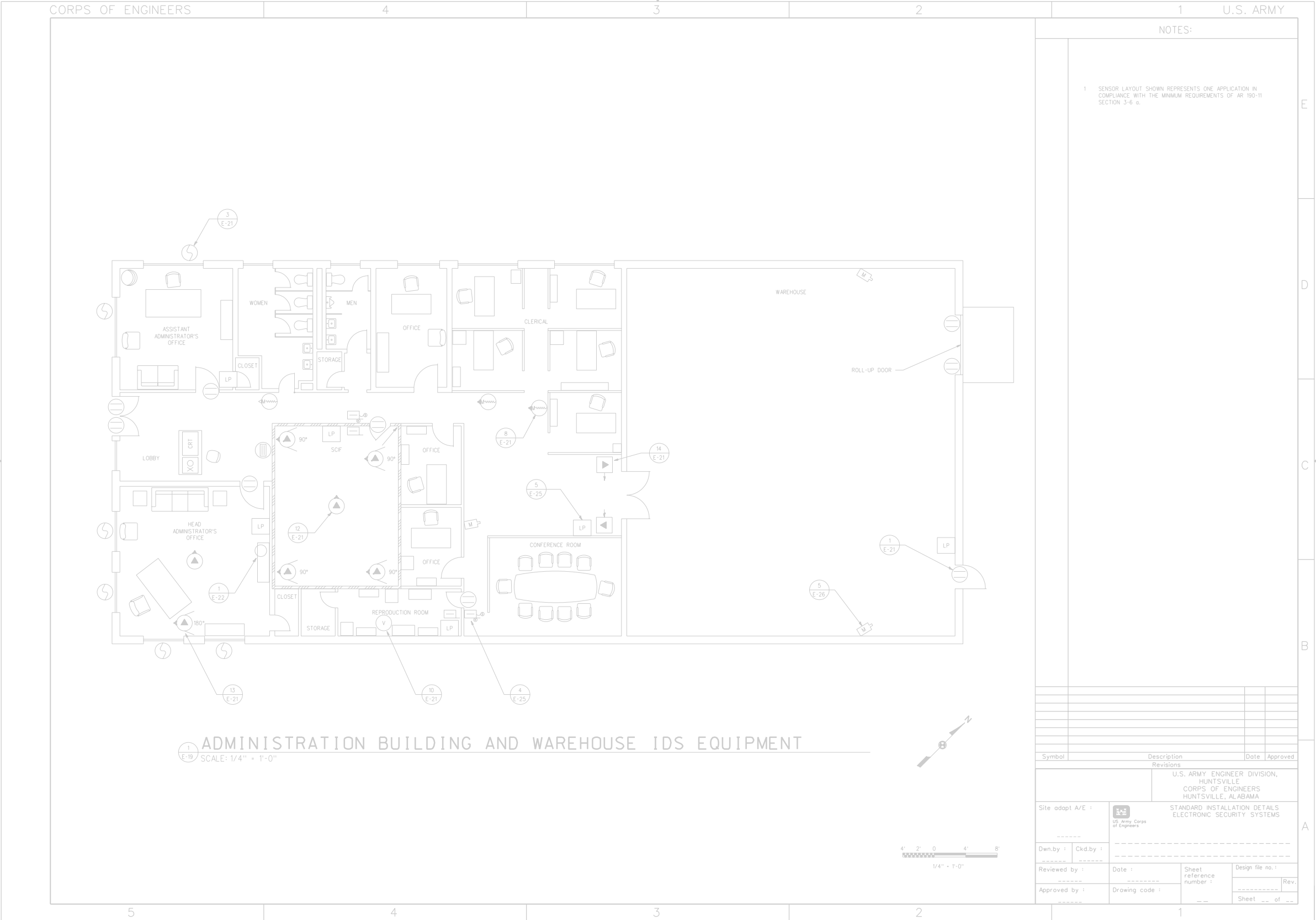
1 SENSOR LAYOUT SHOWN REPRESENTS ONE APPLICATION IN COMPLIANCE WITH THE MINIMUM REQUIREMENTS OF AR 190-11 SECTION 3-6 a.



1 E-18 SECURITY CENTER IDS EQUIPMENT
SCALE: 1/4" = 1'-0"



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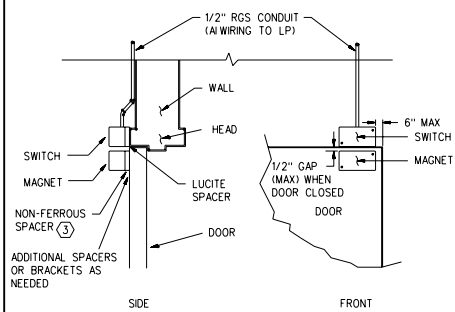
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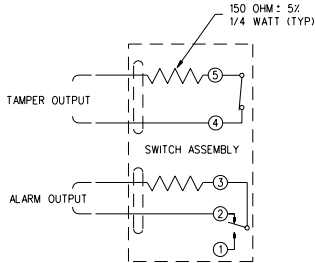
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1

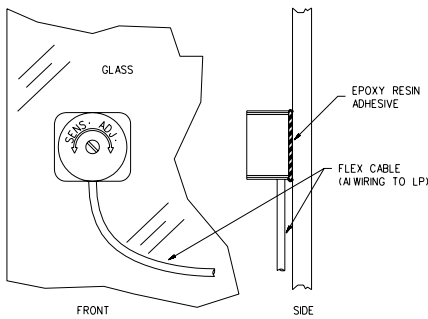
U.S. ARMY



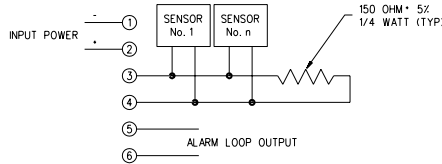
1 BMS INSTALLATION DETAIL (TYP)
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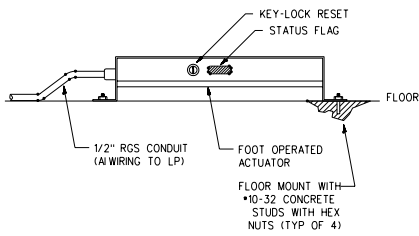
2 BMS INTERCONNECT DETAIL (TYP)
NOT TO SCALE



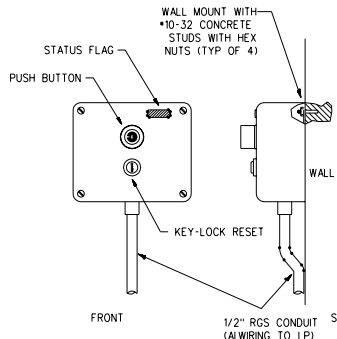
3 GLASS BREAK SENSOR (TYP)
NOT TO SCALE



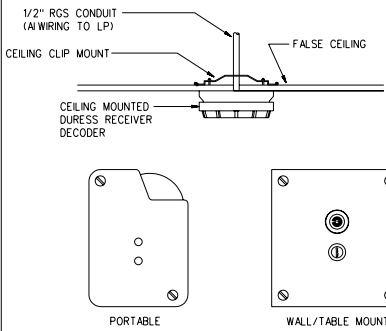
4 GLASS BREAK SENSOR INTERCONNECT
NOT TO SCALE



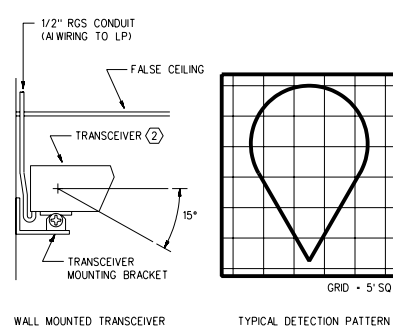
5 DURESS ALARM SWITCH - FOOT RAIL
NOT TO SCALE



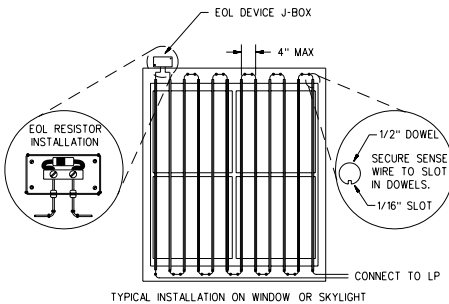
6 DURESS ALARM SWITCH - PUSH BUTTON
NOT TO SCALE



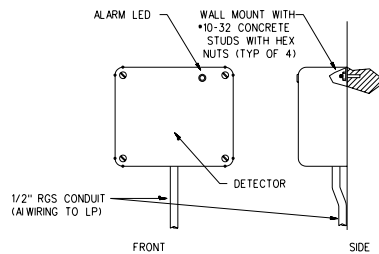
7 DURESS ALARM SWITCH - WIRELESS
NOT TO SCALE



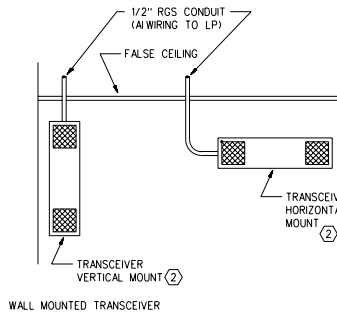
8 MICROWAVE MOTION SENSOR - INDOOR
NOT TO SCALE



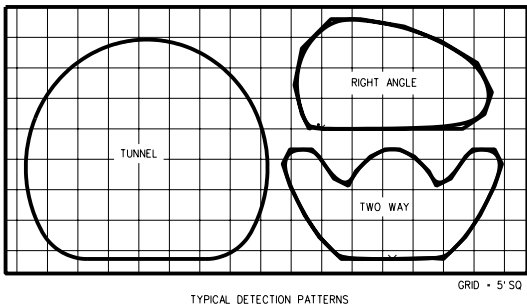
9 SECURITY SCREEN SENSOR INSTALLATION
NOT TO SCALE



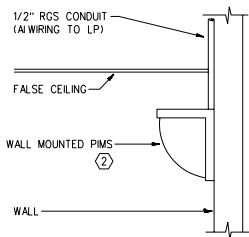
10 VIBRATION SENSOR
NOT TO SCALE



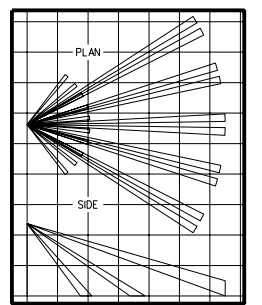
11 ULTRASONIC MOTION SENSOR
NOT TO SCALE



12 CEILING MOUNTED PIMS
NOT TO SCALE



13 WALL MOUNTED PIMS
NOT TO SCALE



14 PHOTO-ELECTRIC SENSOR
NOT TO SCALE

NOTES:

- 1 NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.
- 2 MOUNT SENSOR 90" (MAX) ABOVE FINISHED FLOOR.
- 3 NON-FERROUS SPACER REQUIRED FOR METAL DOORS.

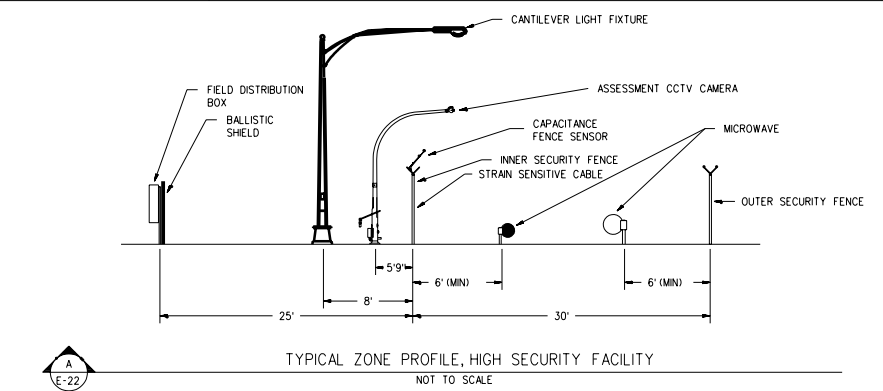
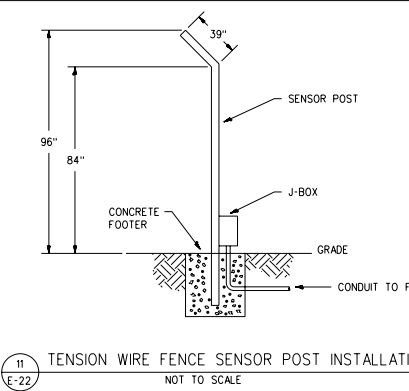
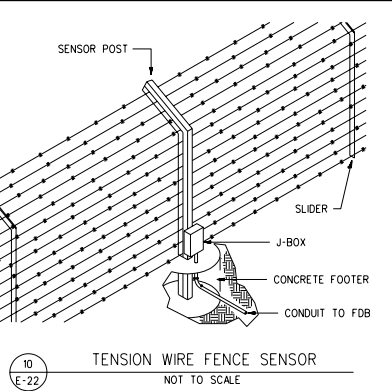
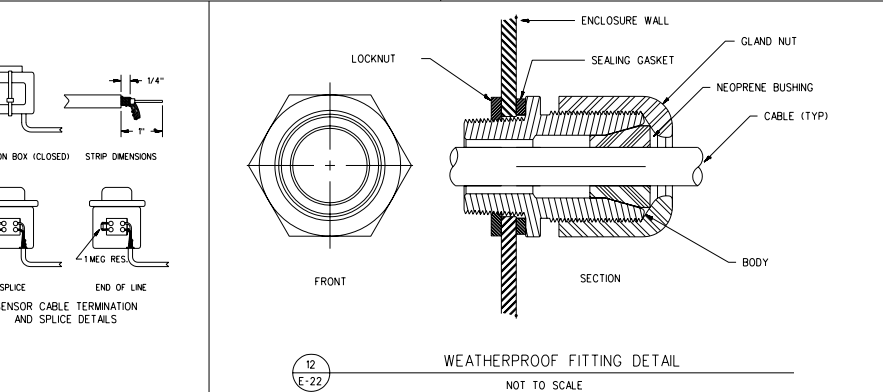
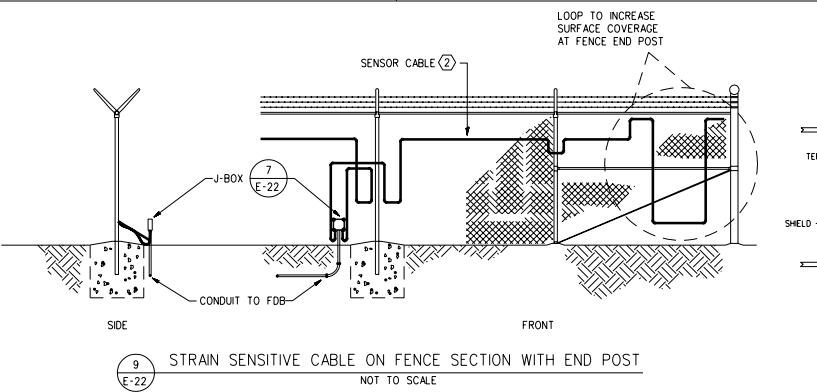
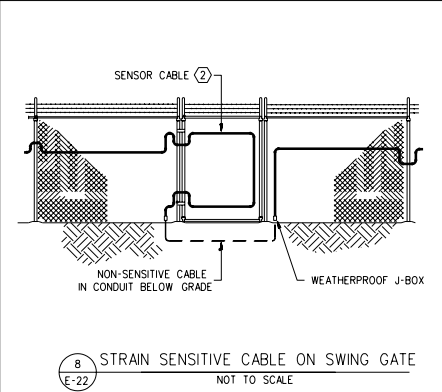
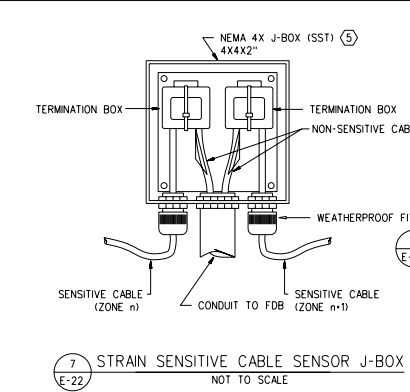
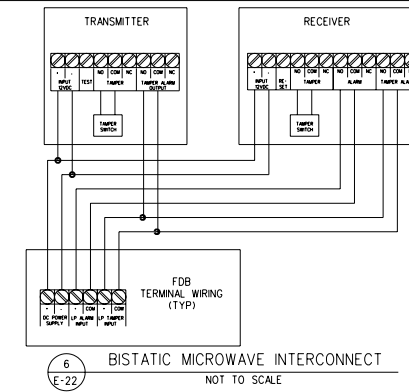
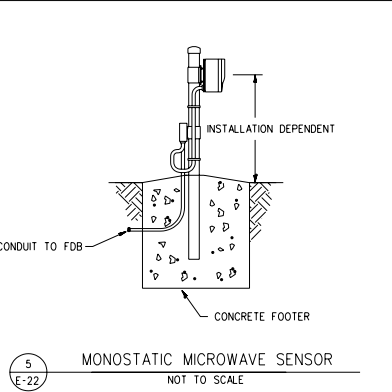
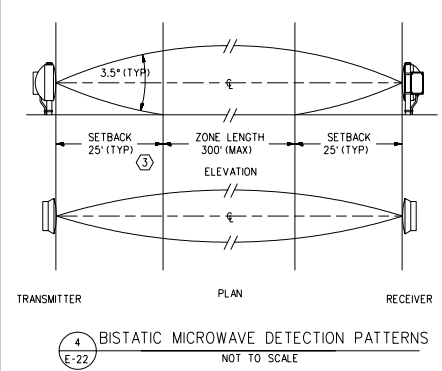
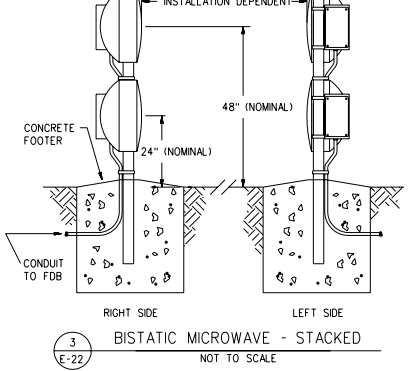
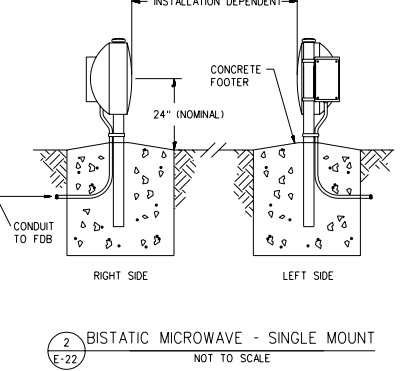
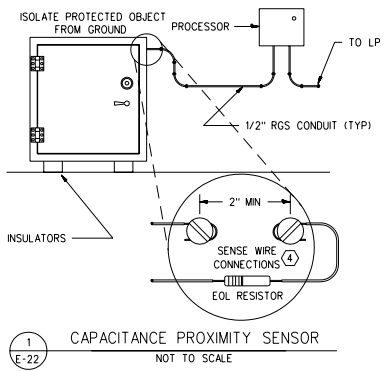
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NOTES:

- 1 NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.
- 2 SECURE SENSOR CABLE TO FENCE FABRIC USING UV RESISTANT TIE WRAPS AT INTERVALS OF 24".
- 3 SETBACK IS DEFINED AS THE DISTANCE FROM THE TRANSMITTER OR RECEIVER UNIT TO THE POINT AT WHICH THE MICROWAVE DETECTION PATTERN TOUCHES GROUND LEVEL. SETBACK VARIES CONSIDERABLY BETWEEN DIFFERENT MAKES AND MODELS OF BISTATIC MICROWAVE SENSOR SYSTEMS. MAXIMUM ZONE LENGTH IS 300' REGARDLESS OF SETBACK REQUIREMENTS.
- 4 EOL TERMINATION SHALL BE MOUNTED EITHER INSIDE THE PROTECTED CABINET, OR IN A TAMPER PROTECTED JUNCTION BOX ON THE OUTSIDE OF THE PROTECTED CABINET.
- 5 MOUNT J-BOX DIRECTLY TO CONDUIT STUB-UP NEAREST ZONE BREAK.



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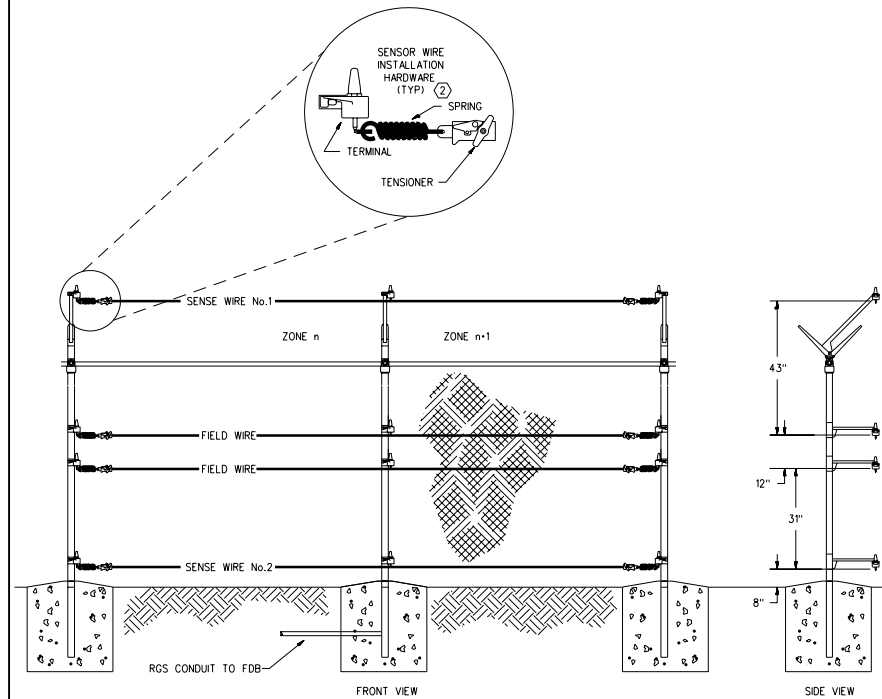
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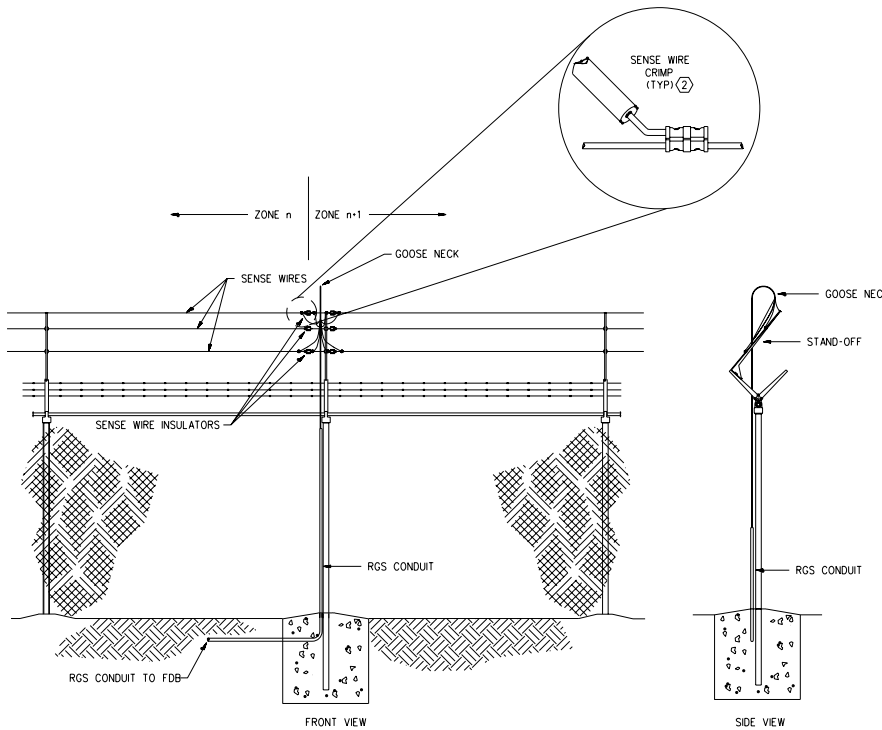
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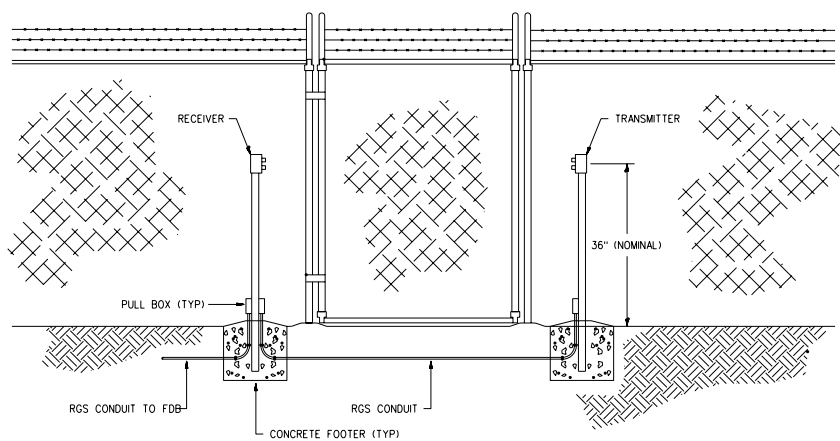
- 1 NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.
- 2 SENSE WIRE, LEAD-IN WIRE, AND ALL WEATHER-EXPOSED METALLIC HARDWARE MUST BE STAINLESS STEEL.
- 3 SEPARATION OF CABLES IS BASED UPON ZONE WIDTH, DESIRED AREA OF COVERAGE, AND MANUFACTURER'S INSTRUCTIONS.



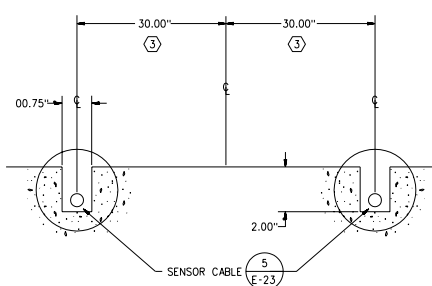
1 ELECTRIC FIELD DISTURBANCE FENCE SENSOR DETAIL
NOT TO SCALE



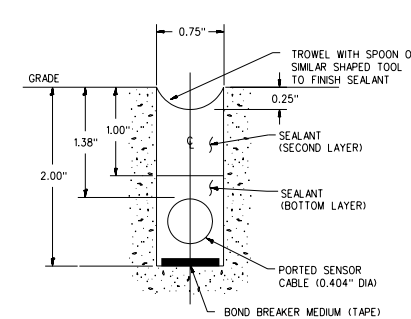
2 CAPACITANCE FENCE SENSOR INSTALLATION DETAIL
NOT TO SCALE



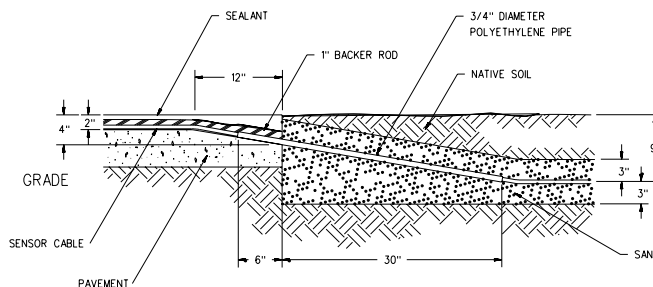
3 PHOTOELECTRIC BEAM ACROSS SWING GATE
NOT TO SCALE



4 BURIED PORTED CABLE INSTALLATION
IN CONCRETE OR ASPHALT
NOT TO SCALE



5 SLOT DETAIL FOR CONCRETE OR ASPHALT
NOT TO SCALE



6 BURIED PORTED CABLE SENSOR SOIL-TO-HARD SURFACE TRANSITION DETAIL
NOT TO SCALE

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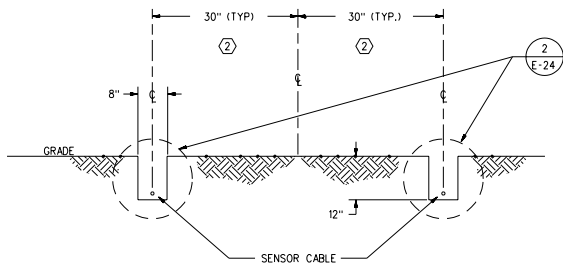
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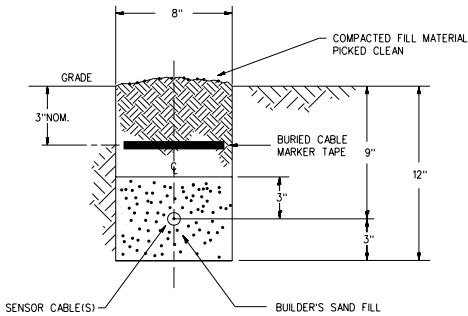
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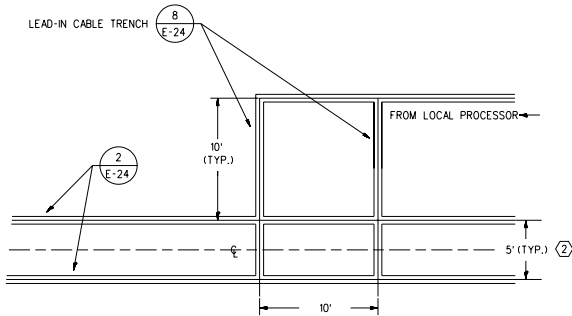
- 1 NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.
2 SEPARATION OF CABLES IS BASED UPON SOIL TYPE, ZONE WIDTH, DESIRED AREA OF COVERAGE, AND MANUFACTURER'S INSTRUCTIONS.
3 DEPTH OF TRENCHING FOR LEAD-IN CABLE IS DEPENDENT UPON THE FROST LINE.



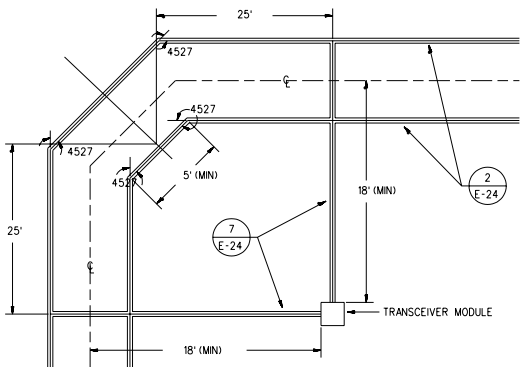
1 PORTED COAXIAL SENSOR CABLE TRENCH
NOT TO SCALE



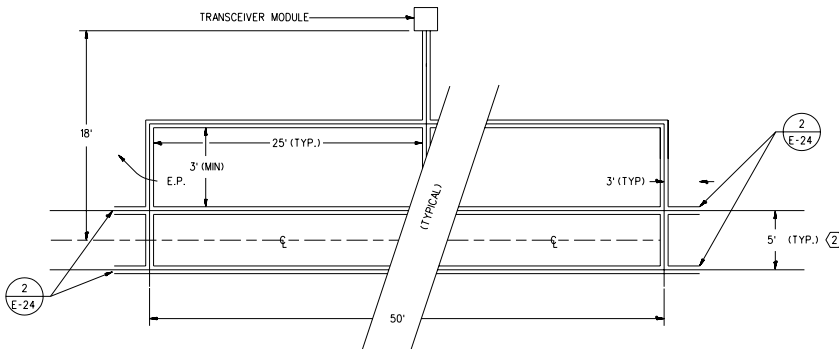
2 SENSOR CABLE TRENCH CROSS SECTION (IN SOIL)
NOT TO SCALE



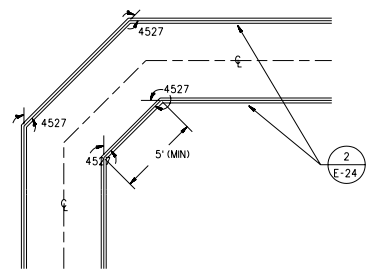
3 TRENCHING DETAIL, LEAD-IN CABLE AT "T" INTERSECT, PLAN
NOT TO SCALE



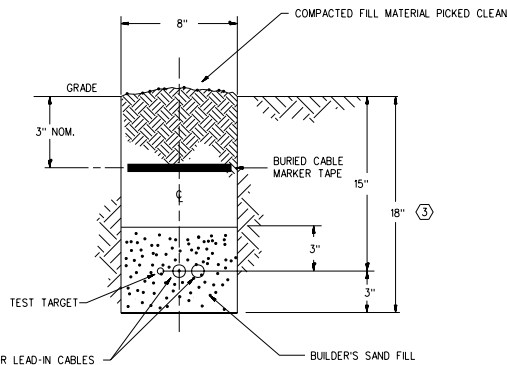
4 TYPICAL CORNER TRENCHING PLAN (SOIL)
NOT TO SCALE



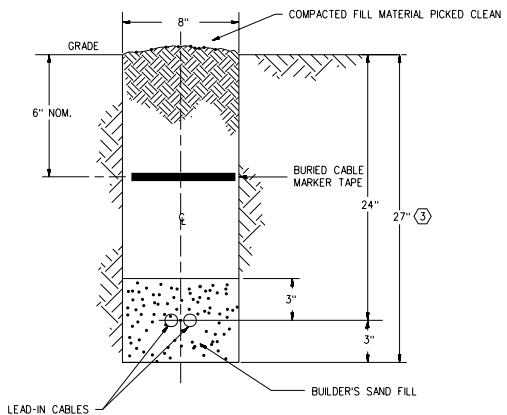
5 TYPICAL OVERLAP TRENCHING DETAIL PLAN (SOIL) WITH TRANSCEIVER MODULE ADJACENT TO ZONE BREAK
NOT TO SCALE



6 TYPICAL CORNER TRENCHING PLAN (SOIL)
NOT TO SCALE



7 SENSOR LEAD-IN CABLE TRENCH CROSS SECTION
NOT TO SCALE



8 LEAD-IN CABLE CROSS SECTION
NOT TO SCALE

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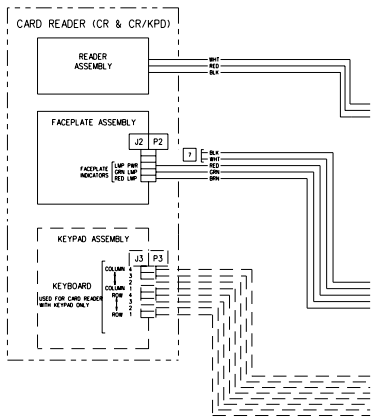
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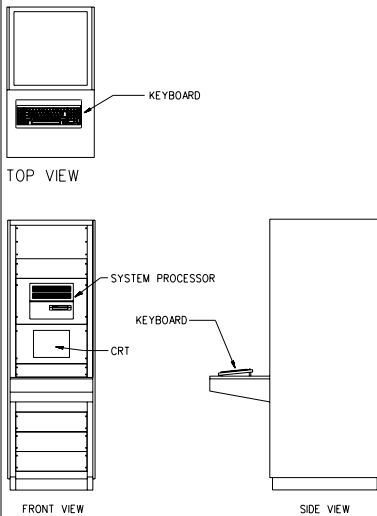
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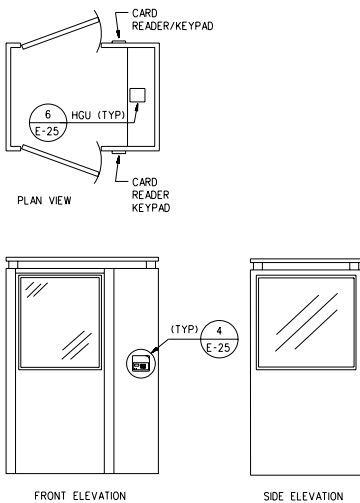
1. NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.
2. ELEVATION SHOWN REPRESENTS THE SECURE SIDE OF THE DOOR.



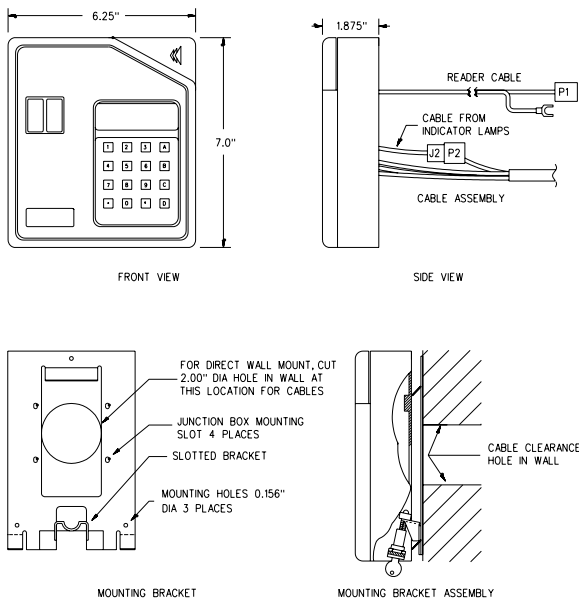
1 CARD READER INTERCONNECT
E-25 NOT TO SCALE



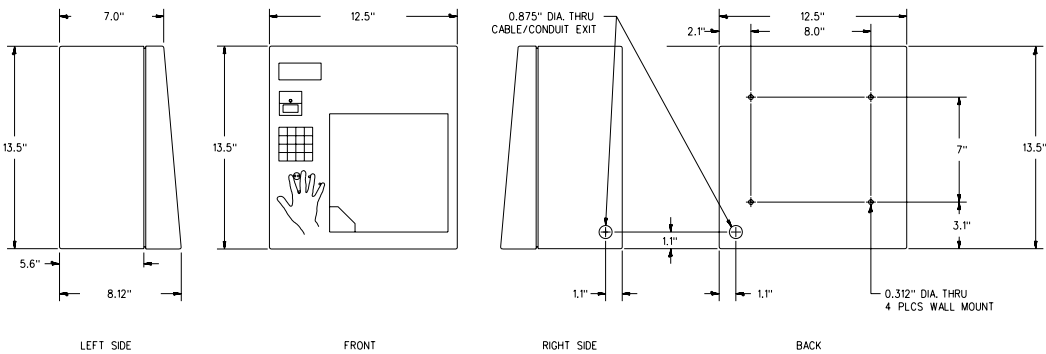
2 EECS CONSOLE
E-25 NOT TO SCALE



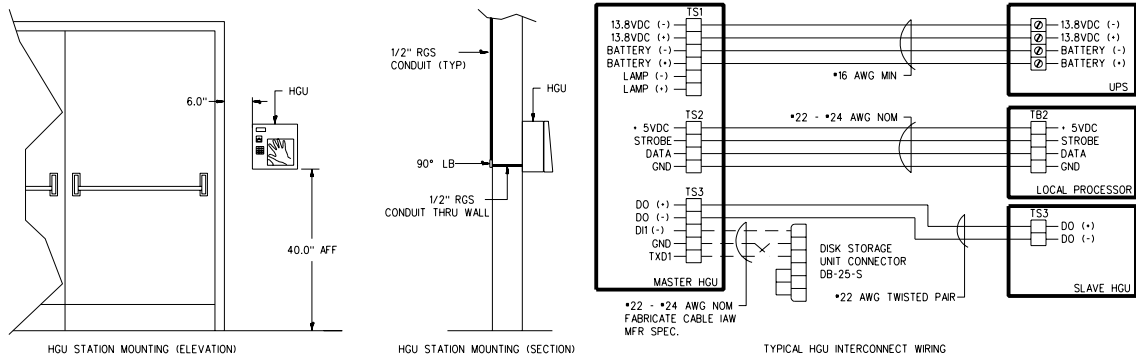
3 BOOTH
E-25 NOT TO SCALE



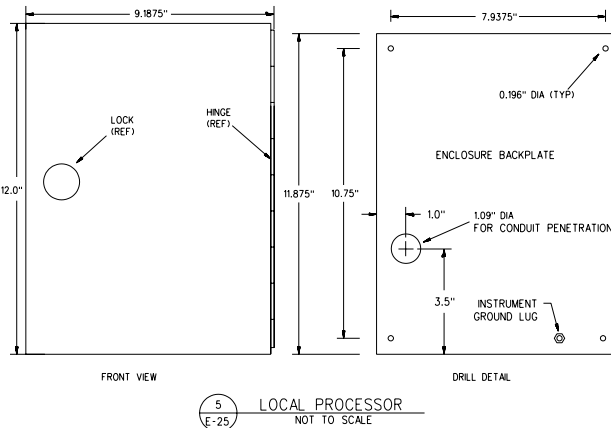
4 CARD READER WITH KEYPAD INSTALLATION DETAIL
E-25 NOT TO SCALE



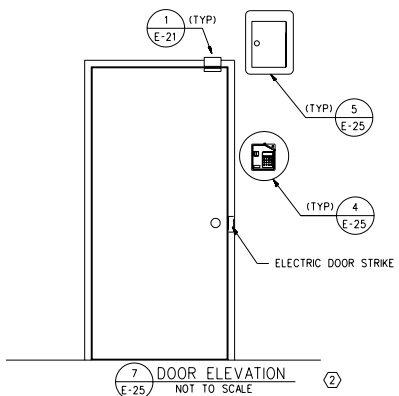
5 HAND GEOMETRY UNIT INSTALLATION DETAILS
E-25 NOT TO SCALE



6 TYPICAL HGU INTERCONNECT WIRING
E-25 NOT TO SCALE



7 LOCAL PROCESSOR
E-25 NOT TO SCALE



8 DOOR ELEVATION
E-25 NOT TO SCALE

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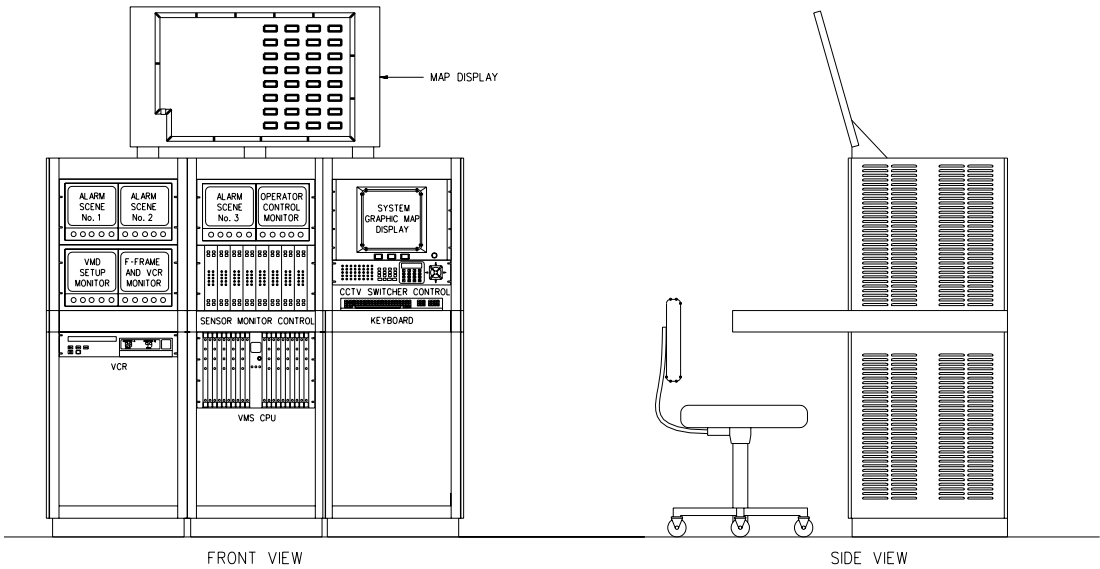
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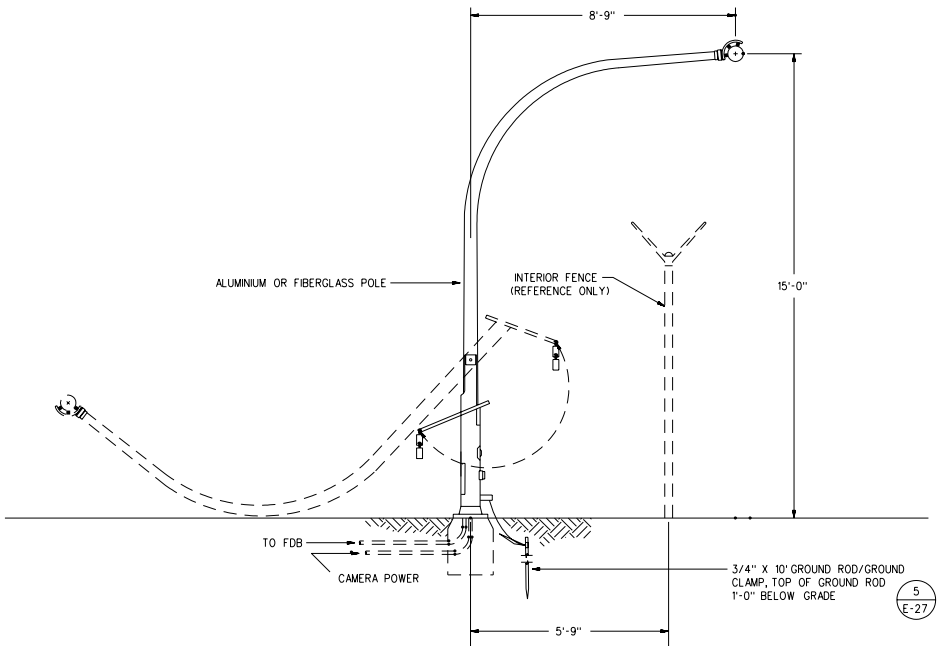
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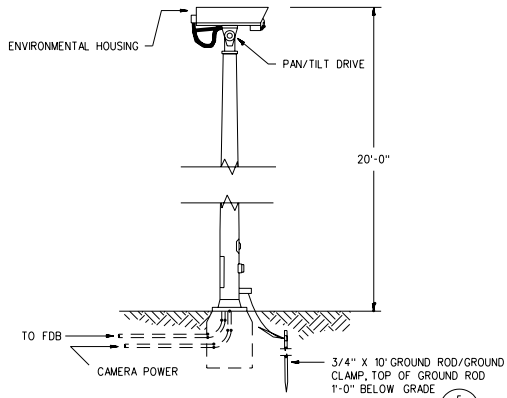
1 NOT ALL DETAILS ON THIS SHEET ARE NECESSARILY REQUIRED BY THE CONTRACT.



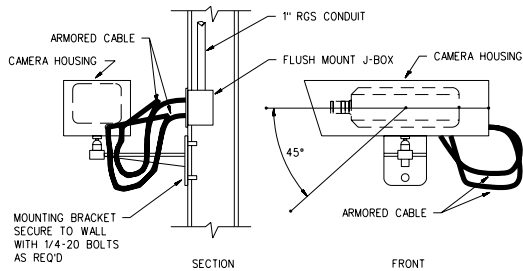
1 OPERATOR'S CONSOLE
NOT TO SCALE



2 6" DIAMETER CCTV MOUNTING POLE WITH EXTERNAL JUNCTION BOX
NOT TO SCALE

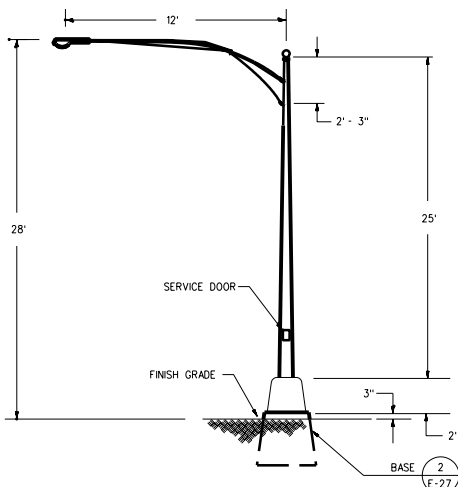


4 PTZ CAMERA
NOT TO SCALE

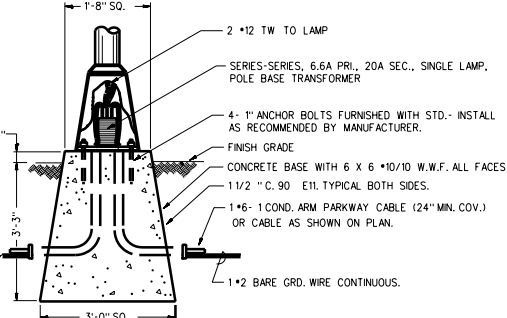


5 CAMERA - INDOOR
NOT TO SCALE

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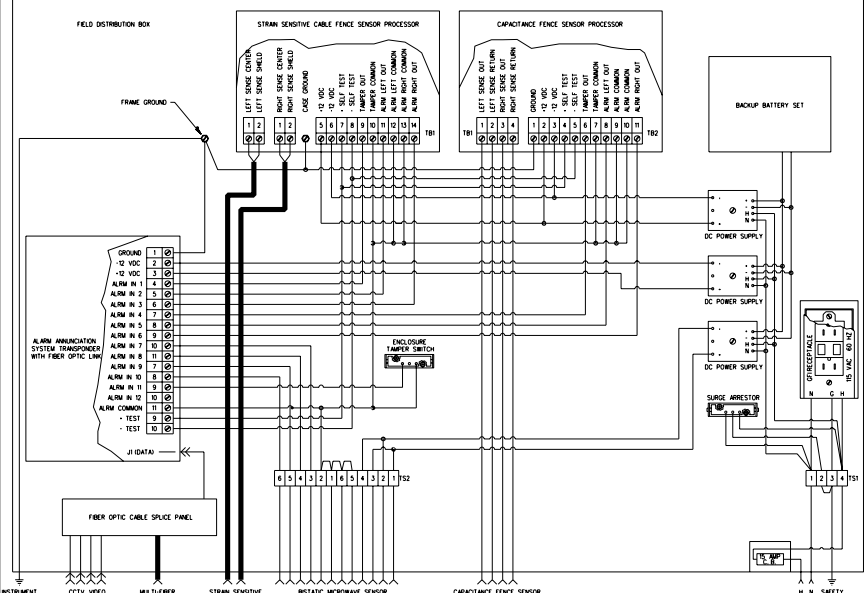
1 PERIMETER LIGHTING DETAIL - LIGHT POLE
NOT TO SCALE



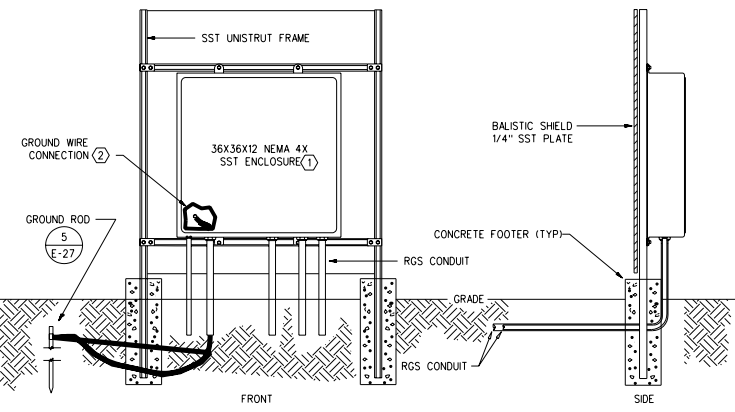
2 PERIMETER LIGHTING DETAIL - LIGHT POLE BASE
NOT TO SCALE

NOTES:

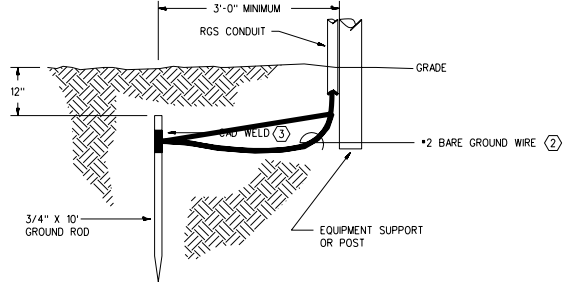
- ① CONTRACTOR TO SELECT FDB ENCLOSURE SIZE DEPENDING ON PROJECT REQUIREMENTS.
- ② CONNECT GROUND WIRE INSIDE ENCLOSURE TO BACK PLANE USING COPPER OR BRASS GROUND LUG.
- ③ WELD INSTRUMENT GROUND CONNECTOR FOR CAMERA AND LIGHT POLES. CLAMP CONNECTION IS ACCEPTABLE FOR OTHER INSTRUMENT ENCLOSURES.



3 FIELD DISTRIBUTION BOX WIRING DIAGRAM
NOT TO SCALE



4 FIELD DISTRIBUTION BOX INSTALLATION
NOT TO SCALE



5 INSTRUMENT GROUND ROD INSTALLATION DETAIL
NOT TO SCALE

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